

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

FORM 1- NOTICE OF CONSTRUCTION TO CONSTRUCT - INSTALL - ESTABLISH OR MODIFY AN AIR CONTAMINANT SOURCE

Form 1 Instructions:

1. Please complete all the fields below. **This NOC application is considered incomplete until signed.**
2. If the application contains any confidential business information, please complete a Request of Confidentiality of Records (www.orcaa.org/forms).
3. Duty to Correction Application: An applicant has the duty to supplement or correct an application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application must, upon becoming aware of such failure or incorrect submittal, promptly submit supplementary factors or corrected information.

Business Name: <div style="font-size: 1.2em; font-family: cursive;">Windfall Architectural Products</div>	For ORCAA use only File No: 747 County No: 07 Source No: 713 Application No: 22NOC1579 Date Received: <div style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;"> Received DEC 13 2022 ORCAA </div>
Mailing Address: <div style="font-size: 1.2em; font-family: cursive;">711 Tumwater BLVD SW, Suite D</div>	
Physical Address of Project or New Source: <div style="font-size: 1.2em; font-family: cursive;">711 Tumwater BLVD SW, Suite D</div>	
Billing Address: <div style="font-size: 1.2em; font-family: cursive;">711 Tumwater BLVD SW, Suite D</div>	
Project or Equipment to be installed/established: <div style="font-size: 1.2em; font-family: cursive; margin-top: 10px;">Trim Line Machine</div>	
Anticipated startup date: 12/13/22 Is facility currently registered with ORCAA? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
This project must meet the requirements of the State Environmental Policy Act (SEPA) before ORCAA can issue final approval. Indicate the SEPA compliance option: <input checked="" type="checkbox"/> SEPA was satisfied by Tumwater (government agency) on 12/31/2023 (date) - Include a copy of the SEPA determination <input type="checkbox"/> SEPA threshold determination by _____ (government agency) is pending - Include a copy of the environmental checklist <input type="checkbox"/> ORCAA is the only government agency requiring a permit - Include ORCAA Environmental Checklist <input type="checkbox"/> This project is exempt from SEPA per _____ (WAC citation).	
Name of Owner of Business: Scott Royer	Agency Use Only
Title: owner	
Email: scott@windfall.design	Phone: (360) 239-9116
Authorized Representative for Application (if different than owner): <div style="font-size: 1.2em; font-family: cursive; margin-top: 5px;">James Gunther</div>	
Title: Production Manager	
Email: James@windfall.design	Phone: (360) 688-0116
I hereby certify that the information contained in this application is, to the best of my knowledge, complete and correct.	
Signature of Owner or Authorized Representative: (sign in Blue Ink)	
	Date: 12/9/22
IMPORTANT: Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.	

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FORM 1D- Contact Information

Business Name Windfall Architectural Products	FOR ORCAA USE
Physical Site Address (Street address, city, state, zip) 711 Tumwater BLVD, SW, WA 98501	FILE # 747
	CTY # 67
	SRC # 713
Previous Business Name (if applicable) Windfall Lumber → Windfall Architectural Cambio Wall systems	Date Received
	Received DEC 13 2022

ORCAA

Contact Information

Inspection Contact	
Name James Gunther	Title Production Manager
Phone (360) 688-0116	Email james@windfall.design
Billing Contact	
Name Kim Kennedy	Title Accountant
Phone (360) 790-2573	Email Kim@windfall.design
Emission Inventory Contact	
Name James Gunther	Title
Phone	Email
Complaint Contact	
Name Scott Royer	Title Owner
Phone (360) 239-9116	Email Scott@windfall.design
Permit Contact	
Name Scott Royer	Title
Phone	Email

The **inspection contact** is the on-site person responsible for the everyday operation of the site and is available for inspections.

The **billing contact** is the person invoices are sent.

The **emission inventory contact** is the person requests for emissions information and material use information are sent.

The **complaint contact** is the person who receives and responds to complaints received on-site and who is contacted regarding complaints ORCAA receives.

The **permit contact** is the person responsible for filling out permit applications and receiving approval from ORCAA.



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Telephone: (360)-539-7610 - Fax: (360)-491-6308

www.orcaa.org

FORM 8

Fill out all the applicable equipment information requested below and submit the appropriate fees.

SPRAY COATING (Autobody) SURFACE COATING (Aviation, Wood, Boat, Other)

Shop Information

Business Name: <i>Windfall Architectural Products</i>	Contact Person: <i>James Gunther</i>
	Phone Number: <i>(360) 497-0116</i>
	Email: <i>james@windfall.design</i>
Operating Schedule: <i>8 hrs/day, 5 days/wk, 52 wks/yr</i>	Indicate days when operating: <input checked="" type="checkbox"/> M <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> F <input type="checkbox"/> Sat <input type="checkbox"/> Sun

Process Information

Flow:	<input type="checkbox"/> Cross front flow	<input checked="" type="checkbox"/> Full downdraft	<input type="checkbox"/> Side downdraft	<input type="checkbox"/> Combination	
	<input type="checkbox"/> Cross reverse flow	<input type="checkbox"/> Semi-downdraft	<input type="checkbox"/> Updraft	<input checked="" type="checkbox"/> Other (explain in attachment)	
Exhaust:	<input type="checkbox"/> Side Wall	<input type="checkbox"/> Pit/Trench Design	<input checked="" type="checkbox"/> Ceiling	<input type="checkbox"/> Roar Wall <input type="checkbox"/> Front/Doors	
Intake Type:	<input checked="" type="checkbox"/> Natural		<input type="checkbox"/> Forced (air make-up unit)		
Enclosure Type:	<input type="checkbox"/> Fully enclosed	<input type="checkbox"/> Compact/modular	<input type="checkbox"/> Open table/bench		
	<input type="checkbox"/> Closed top open front (CTOF)	<input type="checkbox"/> Curtain/drape	<input checked="" type="checkbox"/> Other (explain in attachment)		
Width (feet):	<i>2</i>	Length (feet):	<i>4.5</i>	Height (feet):	<i>3</i>
Manufacturer:	<i>Makor</i>				
Model Number:	<i>CSP-6</i>				
Serial Number:	<i>7133</i>				
Pressure Gauge:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Plenum:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Intended Applicator Usage (see next section):	<input checked="" type="checkbox"/> Applicator #1	<input type="checkbox"/> Applicator #3	<input type="checkbox"/> Applicator #5		
	<input type="checkbox"/> Applicator #2	<input type="checkbox"/> Applicator #4			
Air Pollution Control Methods:	<input type="checkbox"/> Water Wash	<input checked="" type="checkbox"/> Low VOC coatings	<input type="checkbox"/> Cartridge unit (Form 12)		
	<input type="checkbox"/> Scrubber	<input type="checkbox"/> Cyclone (Form 13)	<input type="checkbox"/> Enclosed spray gun cleaner		
	<input type="checkbox"/> Oxidizer (Form 35)	<input type="checkbox"/> Baghouse (Form 12)			
Heater/Curing Information (if applicable)					
Heater Placement:	<input type="checkbox"/> Part of spray booth unit		<input type="checkbox"/> Separate curing enclosure (Form 11)		
Curing/Heating Type:	<input type="checkbox"/> Hot air dryer	<input type="checkbox"/> Infrared dryer	<input type="checkbox"/> Other (explain in attachment)		
	<input type="checkbox"/> Ultraviolet	<input type="checkbox"/> Boiler			
Fuel/Heat Type:	<input type="checkbox"/> Natural gas	<input type="checkbox"/> Electric	<input type="checkbox"/> Other (explain in attachment)		
	<input type="checkbox"/> Propane (LP) Gas	<input type="checkbox"/> Diesel			
Maximum Heating Rate (MMBtu/hr):					
Maximum Air Flow Rate (acfm):					

Coating Operation Information

Type:	<input checked="" type="checkbox"/> Existing Stationary Source	<input type="checkbox"/> Temporary Source	<input type="checkbox"/> New Stationary Source
NAICS Code(s):	337212		

Coating Equipment Information

	Applicator #1	Applicator #2	Applicator #3	Applicator #4	Applicator #5
Coating Type**:	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input checked="" type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating
Manufacturer:	Waltor				
Model:	WA-101				
Quantity:	2				
Technology Type:	<input checked="" type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)
Automation/Control:	<input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> Manual <input type="checkbox"/> Automatic			
Air Supply Pressure (psi):	30				
Fluid Output Pressure (psi):	25				
Mounting:	<input type="checkbox"/> Handheld Gun <input checked="" type="checkbox"/> Machine/Reciprocator	<input type="checkbox"/> Handheld Gun <input type="checkbox"/> Machine/Reciprocator			

**Only provide further information for applicators that are not roller/brush

Dry Filter Information

	Pre-Filter	Exhaust Filter
Manufacturer:	Tridim Tridim Filter Corp	PPA Industries, Inc
Model:	Tri Heat Green	True Blue
Media Type:	Synthetic	Polymer Mesh
Overall Arrest Efficiency (%):	> 90% @ 1 micrometer > 25% @ 2.5 to 1 mic	66%
Filtered Area (squared feet):	6.14	10.5

Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	<input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No
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**Please provide SDS/ MSDS information and estimated annual usage for each product

Other Process Information

Abrasive Blasting:	<input type="checkbox"/> Yes (Form 17) <input checked="" type="checkbox"/> No
Welding:	<input type="checkbox"/> Yes (Form 19) <input checked="" type="checkbox"/> No
Metal Cutting:	<input type="checkbox"/> Yes (Form 31) <input checked="" type="checkbox"/> No
Fluidized Bed Coating:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cleaning/Etching/Degreasing Information

Methylene Chloride Stripping:	<input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No
Phosphate or Chromate Conversion Coating:	<input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No
Chemical/Acid Rinsing or Bathing: <i>Jem Strip-Sonic Cleaner</i>	<input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No

**Please provide SDS/ MSDS information and estimated annual usage for each product *cleaning tie heads*

Exhaust/Stack/Building Information

Motor Power (hp):	2	
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	800 acfm	
Fan Diameter (feet):	2.25	
Stack Type:	<input checked="" type="checkbox"/> Vortical (Ceiling Outlet)	<input type="checkbox"/> Horizontal (Wall Outlet)
Stack Height (feet from ground):	17.5	
Stack Inside Diameter (inches):	12	
Stack weatherproof damper or exhaust apparatus:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Hexagonal <input type="checkbox"/> Stack within stack	<input type="checkbox"/> Butterfly <input type="checkbox"/> Inverted cone <input type="checkbox"/> Other (explain in attachment)
Bldg. Peak Height (feet):	17'	
Bldg. Width (feet):	125'	
Bldg. Length (feet):	274'	

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	140
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet): <i>* NO residences adjacent to property</i>	N/A

Filing Fee:

See <https://www.orcaa.org/services/fea-schedules/> for an up-to-date list of fees



ENVIRONMENTAL CHECKLIST
COMMUNITY DEVELOPMENT DEPARTMENT
PH: (360)754-4180, FAX: (360)754-4128
EMAIL: devsvcs@ci.tumwater.wa.us

City Hall
555 3rd Road SW
Tumwater, WA 98501-6515
Phone: 360-754-5855
Fax: 360-754-4128

Any person proposing to develop in the incorporated limits of the City of Tumwater is **required to submit an environmental checklist** unless the project is exempt as specified in WAC 197-11-800 (Categorical Exemptions) of the State Environmental Policy Act Rules. **SUBMITTAL REQUIREMENTS** are as follows:

1. **A COMPLETE ENVIRONMENTAL CHECKLIST.**
If the project is located within the Port of Olympia property, the checklist must also be signed by a representative of the Port.
2. **FEE OF \$855.00 TO BE PAID UPON SUBMITTAL.**
3. **NAME AND ADDRESS LIST OF PROPERTY OWNERS WITHIN 300 FEET OF THE SUBJECT PROPERTY.**

Community Development Dept
City of Tumwater

DEC 31 2013

RECEIVED

Purpose of Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21 RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impacts.

Use of Checklist for Non-Project Proposals

Complete this checklist for non-project proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON-PROJECT ACTIONS (part D).

A. BACKGROUND

1. Name of proposed project, if applicable
Windfall Lumber Expansion
2. Name of applicant.
Scott Royer
3. Address and phone number of applicant and contact person.
711 Tumwater Blvd SW, Tumwater WA 98501
4. Date checklist prepared: December 30, 2013
5. Agency requesting checklist
ORCCA & City of Tumwater
6. Proposed timing or schedule (include phasing, if applicable).
Installation in January 2014
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
No
8. List any environmental information you know about that has been prepared, or will be prepared directly related to this proposal.
ORCAA application

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal?
If yes, explain.

No

10. List any government approvals or permits that will be needed for your proposal, if known.

N/A

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

Windfall Lumber is an FSC Certified Reclaimed timber mill. We predominantly
manufacture wall cladding products and tables for commercial customers. Most
material are from reclaimed sources. We would like to add finished products to our
product line. We have purchased a used spray booth 16' x 24', which would be fully
enclosed within a facility of approximately 18,000 square feet. We also have
purchased a used baghouse to be installed as part of this expansion.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist

Booth will be in a pre-existing industrial building at 711 Tumwater Blvd SW,
Tumwater WA 98501.

B. ENVIRONMENTAL ELEMENTS

EVALUATION FOR
AGENCY USE ONLY

1. Earth

a. General description of the site (circle one): Flat
rolling, hilly, steep slopes, mountainous, other:
Flat

b. What is the steepest slope on the site
(approximate percent slope)?
Flat

c. What general types of soils are found on the site
(for example, clay, sand, gravel, peat, muck)? If
you know the classification of agricultural soils,
specify them and note any prime farmland.
Loam. Mixed glacial outwash.

d. Are there surface indications or history of
unstable soils in the immediate vicinity? If so,
describe.
N/A

e. Describe the purpose, type and approximate
quantities of any filling or grading proposed.
Indicate source of fill.
N/A

f. Could erosion occur as a result of clearing,
construction, or use? If so, generally describe.
N/A

EVALUATION FOR
AGENCY USE ONLY

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?
N/A - Existing building

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any
N/A

2. Air

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Filtered air from water-based low-VOC finished at spray booth. Dust from baghouse - particulate control efficiency at 99.995%.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

N/A

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Booth Filters, Bags in Baghouse

3. Water

EVALUATION FOR
AGENCY USE ONLY

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into

None - Existing Building

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No

3) Estimate amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site which would be affected. Indicate source of fill material

N/A

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

N/A

5) Does the proposal lie within a 100-year flood plain? If so, note location on the site plan.

N/A

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so describe the type of waste and anticipated volume of discharge.

N/A

EVALUATION FOR
 AGENCY USE ONLY

b. *Ground:*

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities, if known.

No

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals: ; agricultural; etc.) Describe general size of systems, number of such systems, number of houses to be served (if applicable), or number of animals or humans the system(s) are expected to serve.

None

c. *Water Runoff (including stormwater):*

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known) Where will this water flow? Will this water flow into other waters? If so, describe.

Existing building. No additional structures.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No

EVALUATION FOR
AGENCY USE ONLY

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

N/A

4. Plants

a. Circle types of vegetation found on the site:

Deciduous tree: alder, maple, aspen, other:

Evergreen tree: fir, cedar, pine, other:

Wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other:

Water plants: water lily, eelgrass, milfoil, other:

Shrubs, grass, pasture, crop or grain:

Other types of vegetation (describe):

- b. What kind and amount of vegetation will be removed or altered?

None

- c. List threatened or endangered species known to be on or near the site.

None

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

None

EVALUATION FOR
 AGENCY USE ONLY

5. Animals

- a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

Birds: hawk, heron, eagle, songbirds,
 other:

Mammals: deer, bear, elk, beaver, other:

Fish: bass, salmon, trout, herring,
 shellfish, other:

- b. List all threatened or endangered species known to be on or near the site.

None

- c. Is the site part of a migration route? If so, explain.

N/A

- d. Proposed measures to preserve or enhance wildlife, if any:

N/A

EVALUATION FOR
AGENCY USE ONLY

6. Energy and Natural Resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electric/Gas

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

N/A

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

N/A

7. Environmental Health

EVALUATION FOR
AGENCY USE ONLY

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

N/A

- 1) Describe special emergency services that might be required:

- 2) Proposed measures to reduce or control environmental health hazards, if any:

Filtration. Proper disposal.

b. Noise:

- 1) What types and levels of noise exist in the area that may affect your project (for example: traffic, equipment, operation, other)?

N/A

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

N/A

3) Proposed measures to reduce or control noise impacts if any:

N/A

EVALUATION FOR
AGENCY USE ONLY

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

Industrial park

b. Has the site been used for agriculture? If so, describe.

Not in recent history

c. Describe any structures on the site

Metal construction industrial buildings

d. Will any structures be demolished? If so, what?

No

e. What is the current zoning classification of the site?

Warehouse

f. What is the current comprehensive plan designation of the site?

N/A - Existing structure

- g. If applicable, what is the current shoreline master program designation of the site?

N/A

- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify

No

- i. Approximately how many people would reside or work in the completed project?

20

- j. Approximately how many people would the completed project displace?

N/A

- k. Proposed measures to avoid or reduce displacement impacts, if any:

N/A

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.

N/A

EVALUATION FOR
AGENCY USE ONLY

EVALUATION FOR
AGENCY USE ONLY

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

N/A

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

N/A

- c. Proposed measures to reduce or control housing impacts, if any:

N/A

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

N/A

- b. What views in the immediate vicinity would be altered or obstructed?

None

- c. Proposed measures to reduce or control aesthetic impacts, if any:

None

11. Light and Glare

**EVALUATION FOR
AGENCY USE ONLY**

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

N/A

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

N/A

- c. What existing off-site sources of light or glare may affect your proposal?

N/A

- d. Proposed measures to reduce or control light and glare impacts, if any:

N/A

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?

N/A

- b. Would the proposed project displace any existing recreational uses? If so, describe.

N/A

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

N/A

EVALUATION FOR AGENCY USE ONLY

13. Historic and Cultural Preservation

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

N/A

- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

N/A

- c. Proposed measures to reduce or control impacts, if any:

N/A

14. Transportation

- a. Identify public streets and highways serving the site, and describe the proposed access to the existing street system. Show on site plans, if any.

Tumwater Blvd SW. Pre-existing.

EVALUATION FOR
AGENCY USE ONLY

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

Yes

- c. How many parking spaces would the completed project have? How many would the project eliminate?

No change

- d. Will the proposal require any new roads or streets or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

No additional

- g. Proposed measures to reduce or control transportation impacts, if any:

N/A

EVALUATION FOR AGENCY USE ONLY

15. Public Services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

N/A

- b. Proposed measures to reduce or control direct impacts on public services, if any:

N/A

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other

All

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Electric & Gas - Puget Sound Energy, Already at building.

C. SIGNATURE-APPLICANT/PROJECT REPRESENTATIVE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

MARTIN G. BILLS
Applicant / Representative - Please Print

Martin G. Bills
Applicant / Representative - Signature

12/31/13
Date Submitted

D. SIGNATURE-PROPERTY OWNER'S REVIEW, PORT OF OLYMPIA (if applicable)

I certify that I have reviewed the above environmental checklist prepared by the applicant and that the project is consistent with the tenant's lease for Port property. The Port's comments have been incorporated in the document as submitted or as noted."

CHARITA MATTOX
Port of Olympia - Please Print

Charita Mattox
Port of Olympia - Signature

01/02/14
Date Submitted

E. SIGNATURE-CITY OF TUMWATER

City of Tumwater - Signature

City of Tumwater - Signature

Date Submitted

Reviewed by: _____

Date: _____

TUMWATER BLVD. SW

711 TUMWATER BLVD SW

SUITE 101

101

101

NEW MARKET ST SW

CENTER ST SW

76TH AVE SW

WINDFALL LUMBER
PROCESSED BY
TUMWATER BLVD SW
SUITE 101

bit

101



Material Usage Information (continuation sheet)

NAME OF MATERIAL (as on SDS)	EST. ANNUAL USAGE (gallons)	APPLICATOR #
HYDROPLUS Waterborne Clear Topcoat 40 Gloss (AF7140000)	90	1
HYDROPLUS Waterborne Clear Topcoat 5 Sheen (A98XXA105)	900	1
HYDROPLUS Waterborne Clear Topcoat 10 Sheen (AT95F0010)	250	1
HYDROPLUS Waterborne Clear Topcoat 20 Gloss (AT95F0020)	120	1
HYDROPLUS Waterborne Topcoat Natural Choice (A98XXW34972-4317)	20	1
2-Butoxyethanol (R6K25)	50	1
ColorTrends Water Base Wiping Stain Clear Base (Z30550.00)	25	1
Jem Strip 427	1	1
898 Fruitwood Wood Stain Powder	25	1
163 Weathered Oak Wood Stain Powder	34	1
99 Sea Brown Walnut Wood Stain Powder	15	1
327 Ebony Black Wood Stain Powder	38	1
8 Standard Brown Walnut Wood Stain Powder	22	1
872 Tudor Oak Wood Stain Powder	15	1
KW27008 HeucoTint Raw Umber L	2	1
KW27005 HeucoTint KW27005 Lampblack B	1	1
FX LumberGuard (fire retardant coating)	10	1

November 3, 2022

ORCAA

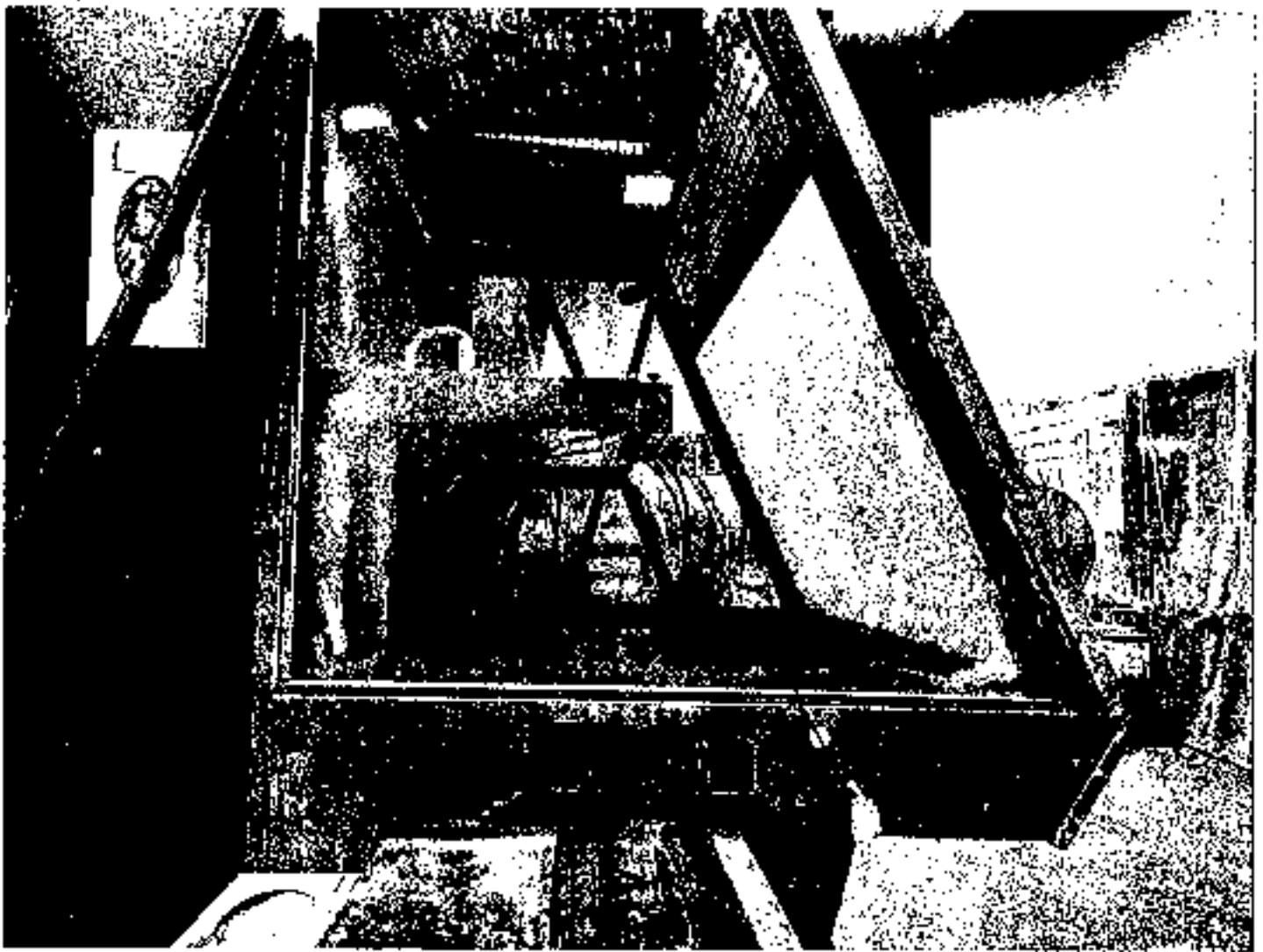
2940 Limited Lane NW
Olympia, WA 98502

Makor CSP-6 automatic spray machine enclosure type description

I would consider this machine to be fully enclosed as the infeed and outfeed ports will not allow any material to escape due to the negative pressure inside the enclosure. Since there is an in-feed port and an out-feed port it may not be considered fully enclosed so attached are pictures of the machine illustrating air flow.



Infeed



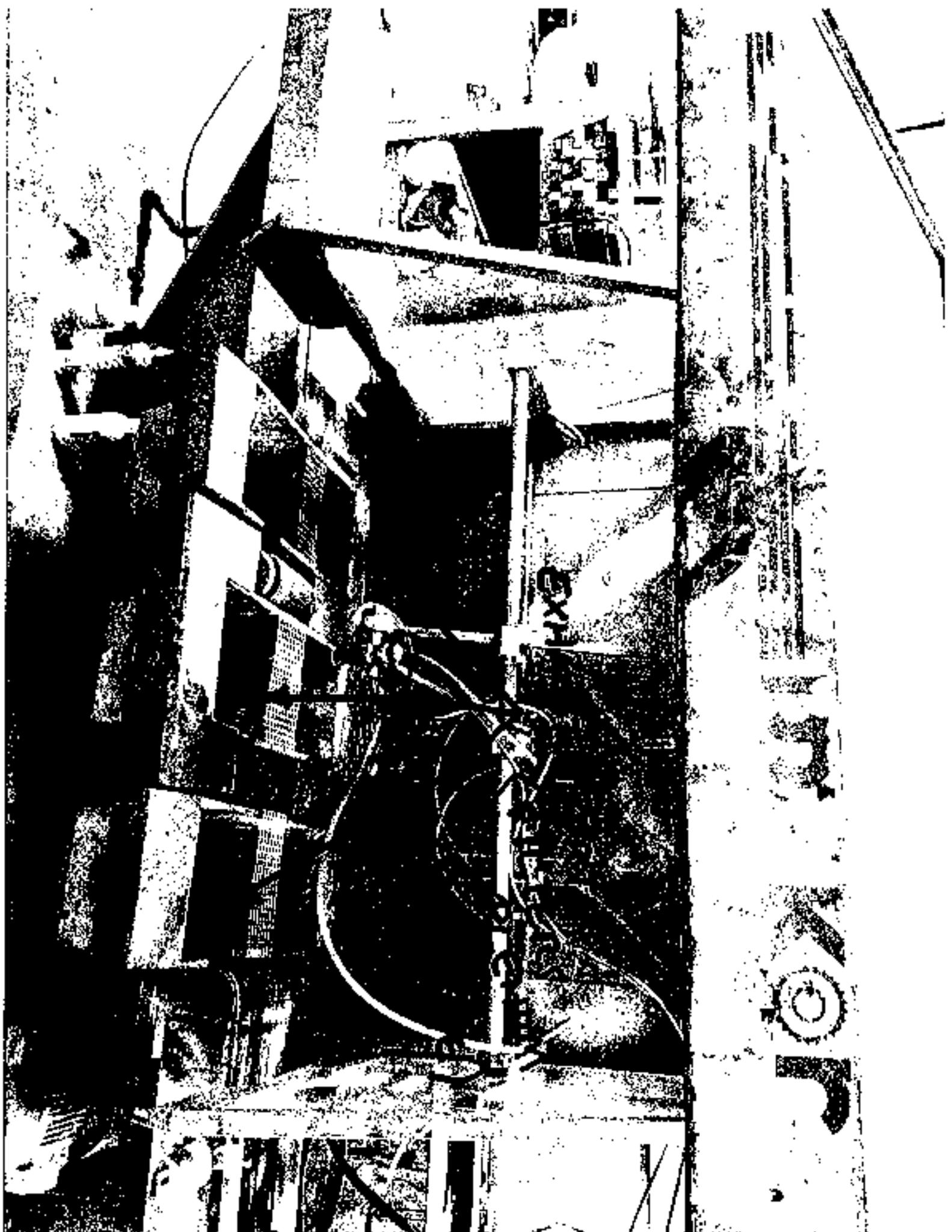
Outfeed

AIR
ENTERING
OUT-FEED
PORT

AIR ENTERING
INTAKE

AIR
ENTERING
IN-FEED
PORT





SAFETY DATA SHEET

AF7140/00

Section 1. Identification

Product name	: HYDROPLUS Waterborne Clear 40 Gloss
Product code	: AF7140/00
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of the substance or mixture and uses advised against	
Paint or paint related material.	
Manufacturer	: SAYERLACK, a brand of Sherwin-Williams 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: 1-800-524-5979 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3% (dermal), 4.5% (inhalation)

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : May cause an allergic skin reaction.
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure

Precautionary statements

Section 2. Hazards identification

Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned. Get medical advice or attention. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs Get medical advice or attention
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
2-(2-Butoxyethoxy)-ethanol	≤5	112-34-5
2-(2-Ethoxyethoxy)-ethanol	≤2.5	111-90-0
2-Butoxyethanol	≤2.4	111-75-2
Adipohydrazide	≤1	1071-93-8
1-Ethyl-2-Pyrrolidone	≤0.3	2687-81-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials.
carbon dioxide
carbon monoxide
nitrogen oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
2-(2-Butoxyethoxy)-ethanol	112-34-5	ACGIH TLV (United States, 1/2022). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-(2-Ethoxyethoxy)-ethanol	111-90-0	OARS WEEL (United States, 1/2021). TWA: 25 ppm 8 hours.
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2022). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m ³ 10 hours OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours
Adipohydrazide	1071-93-8	None.
1-Ethyl-2-Pyrrolidinone	2687-91-4	None.

Occupational exposure limits (Canada)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
Diethylene glycol monobutyl ether	112-34-5	CA Ontario Provincial (Canada, 6/2019). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapour.
Diethylene glycol monoethyl ether	111-90-0	CA Ontario Provincial (Canada, 6/2019). TWA: 165 mg/m ³ 8 hours. TWA: 30 ppm 8 hours.
2-Butoxyethanol	111-76-2	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 97 mg/m ³ 8 hours. 8 hrs OEL: 20 ppm 8 hours. CA British Columbia Provincial (Canada, 3/2022). TWA: 20 ppm 8 hours CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours CA Quebec Provincial (Canada, 6/2021). TWA/EV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
2-(2-butoxyethoxy)ethanol	112-34-5	ACGIH TLV (United States, 1/2022). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-Butoxyethanol	111-76-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Date of issue/Date of revision	: 11/23/2022	Date of previous issue	: 8/8/2022	Version	: 15	6/14
AF7140/D0	HYDROPLUS Waterborne Clear 40 Glass				SHW-35-NA-GHS-US	

Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 7.8
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : 89 (butyl acetate = 1)
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Lower: 0.9%
Upper: 23.5%
- Vapor pressure** : 2.3 kPa (17.5 mm Hg)
- Relative vapor density** : 1 (Air = 1)
- Relative density** : 1.04
- Solubility(ies)** :

Media	Result
cold water	Partially soluble

- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
- Molecular weight** : Not applicable.

Aerosol product

Section 9. Physical and chemical properties

Heat of combustion : 2 156 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-Butoxyethoxy)-ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
2-(2-Ethoxyethoxy)-ethanol	LD50 Oral	Rat	7500 mg/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
1-Ethyl-2-Pyrrolidinone	LD50 Oral	Rat	1350 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
2-(2-Ethoxyethoxy)-ethanol	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
1-Ethyl-2-Pyrrolidinone	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Section 11. Toxicological information

Classification

Product/Ingredient name	OSHA	IARC	NTP
2-Butoxyethanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 3	-	Respiratory tract irritation
2-(2-Ethoxyethoxy)-ethanol	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
2-Butoxyethanol	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 2	-	-
2-(2-Ethoxyethoxy)-ethanol	Category 2	-	-
2-Butoxyethanol	Category 2	-	-

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
Skin contact : Adverse symptoms may include the following:
 irritation
 redness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards

Mutagenicity : No known significant effects or critical hazards

Teratogenicity : May damage the unborn child.

Developmental effects : No known significant effects or critical hazards

Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	55535.13 mg/kg
Dermal	89649.11 mg/kg
Inhalation (vapors)	747.69 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-(2-Butoxyethoxy)-ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
2-(2-Ethoxyethoxy)-ethanol	Acute LC50 3340000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
2-Butoxyethanol	Acute LC50 6010000 µg/l Fresh water	Fish - Ictalurus punctatus	96 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol	-	-	Readily
2-Butoxyethanol	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Section 14. Transport information

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.) does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO Instruments : Not available

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 5(a)2 proposed significant new use rules:** 1-Ethyl-2-Pyrrolidinone; 2-Methyl-4-isothiazolin-3-one; 5-Chloro-2-methylisothiazolinone

TSCA 5(a)2 final significant new use rules: Fluoropolymer

US CAS#	Chemical name	Notes
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United States - TSCA 5(a)2 - Final significant new use rules	Fluoropolymer	
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This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists

: **Australia Inventory (AIC):** Not determined.
China Inventory (IECSC): Not determined.
Japan Inventory (CSCL): Not determined.
Japan Inventory (ISHL): Not determined.
Korea Inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines Inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand Inventory: Not determined.
Turkey Inventory: Not determined.
Vietnam Inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Flammability	2
Reactivity	0
Corrosivity	0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
- SKIN SENSITIZATION - Category 1	Calculation method
- TOXIC TO REPRODUCTION - Category 1B	Calculation method
- SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

Date of printing	: 11/23/2022
Date of issue/Date of revision	: 11/23/2022
Date of previous issue	: 8/8/2022
Version	: 15
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollutant) N/A = Not available SGG = Segregation Group UN = United Nations

☑ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of

Date of issue/Date of revision	: 11/23/2022	Date of previous issue	: 8/8/2022	Version	: 15	13/14
AF714008	HYDRPLUS Waterborne Clear 43 Gloss				SHW-85-NA-GHS-US	

Section 16. Other information

sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

A98XXA105-4317

Section 1. Identification

Product name : Sherwin-Williams Industrial Coatings
5 SHEEN SAYERLACK

Product code : A98XXA105-4317

Other means of identification : Not available

Product type : Liquid

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : (216) 566-2917

Product Information Telephone Number : Not available.

Regulatory Information Telephone Number : (216) 566-2902

Transportation Emergency Telephone Number : (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 2.9% (dermal), 4.4% (inhalation).

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : May cause an allergic skin reaction.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Section 2. Hazards identification

Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. Wash contaminated clothing before reuse. IF ON SKIN. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	<p>WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.</p> <p>This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.</p> <p>Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.</p>
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
2-(2-Butoxyethoxy)-ethanol	s3	112-34-5
2-(2-Ethoxyethoxy)-ethanol	s2.5	111-90-0
2-Butoxyethanol	s2.4	111-76-2
Adipohydrazide	s*	1071-93-8
1-Ethyl-2-Pyrrolidinone	s0.3	2687-91-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
2-(2-Butoxyethoxy)-ethanol	112-34-5	ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-(2-Ethoxyethoxy)-ethanol	111-90-0	OARS WEEL (United States, 1/2021). TWA: 25 ppm 8 hours.
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours.
Adiponitrile	1071-93-8	None
1-Ethyl-2-Pyrrolidinone	2687-91-4	None.

Occupational exposure limits (Canada)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
Diethylene glycol monobutyl ether	112-34-5	CA Ontario Provincial (Canada, 6/2019). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapour.
Diethylene glycol monoethyl ether	111-90-0	CA Ontario Provincial (Canada, 6/2019). TWA: 165 mg/m ³ 8 hours. TWA: 30 ppm 8 hours.
2-Butoxyethanol	111-76-2	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 97 mg/m ³ 8 hours. 8 hrs OEL: 20 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2021). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2018). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes TWA: 20 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
2-(2-butoxyethoxy)ethanol	112-34-5	ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-Butoxyethanol	111-76-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyeface protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 7.8
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: 100°C (212°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: 89 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 23.5%
Vapor pressure	: 2.3 kPa (17.5 mm Hg)
Relative vapor density	: 1 [Air = 1]
Relative density	: 1.04
Solubility(ies)	: Not available
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 2.44 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-Butoxyethoxy)-ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
2-(2-Ethoxyethoxy)-ethanol	LD50 Oral	Rat	7500 mg/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
1-Ethyl-2-Pyrrolidinone	LD50 Oral	Rat	1350 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
2-(2-Ethoxyethoxy)-ethanol	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1-Ethyl-2-Pyrrolidinone	Eyes - Moderate irritant	Rabbit	-	100 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
2-Butoxyethanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 3	-	Respiratory tract irritation
2-(2-Ethoxyethoxy)-ethanol	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
2-Butoxyethanol	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 2	-	-
2-(2-Ethoxyethoxy)-ethanol	Category 2	-	-
2-Butoxyethanol	Category 2	-	-

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : May damage the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	56754,25 mg/kg
Dermal	91135,62 mg/kg
Inhalation (vapors)	786,71 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-(2-Butoxyethoxy)-ethanol	Acute LC50 1300000 ug/l Fresh water	Fish - Lepomis macrochirus	96 hours
2-(2-Ethoxyethoxy)-ethanol	Acute LC50 3340000 ug/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
2-Butoxyethanol	Acute LC50 6010000 ug/l Fresh water	Fish - Ictalurus punctatus	96 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 ug/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 ug/l Marine water	Fish - Meridia beryllina	96 hours

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol	-	-	Readily
2-Butoxyethanol	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	LATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Flammability	2
Health	0
Environment	0

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Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method
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SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

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Date of previous issue : 10/13/2022

Version : 2.04

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BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labeling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

➤ Indicates information that has changed from previously issued version.

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It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of

Section 16. Other information

sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

AT95F0010

Section 1. Identification

Product name : HYDROPLUS Waterborne Clear Topcoat
10 Sheen

Product code : AT95F0010

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against
Paint or paint related material.

Manufacturer : SAYERLACK, a brand of Sherwin-Williams
101 W. Prospect Avenue
Cleveland, OH 44115

National contact : Sherwin-Williams Canada Inc.
180 Brunel Road
Mississauga, Ontario L4Z 1T5 Canada

Emergency telephone number of the company : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number : US / Canada: 1-800-524-5979
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (215) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

Classification of the substance or mixture : SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3% (dermal), 4.6% (inhalation)

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention : Wear protective gloves. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.

Date of Issue/Data of revision : 6/28/2022 **Date of previous Issue** : 5/19/2022 **Version** : 2.03 **1/12**
AT95F0010 HYDROPLUS Waterborne Clear Topcoat
10 Sheen **SHW-85-NA-GHS-CA**

Section 2. Hazards identification

Response	: Get medical advice or attention if you feel unwell. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
2-(2-Butoxyethoxy)-ethanol	3.13	112-34-5
Amorphous Precipitated Silica	1.71	112926-00-8
2-Butoxyethanol	1.51	111-76-2
2-(2-Ethoxyethoxy)-ethanol	1.49	111-90-0
Adipohydrazide	0.54	1071-93-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
2-(2-Butoxyethoxy)-ethanol	112-34-5	ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
Amorphous Precipitated Silica	112926-00-8	NIOSH REL (United States, 10/2020). TWA: 6 mg/m ³ 10 hours.
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 5 ppm 10 hours, TWA: 24 mg/m ³ 10 hours.
2-(2-Ethoxyethoxy)-ethanol	111-90-0	OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours.
Adipohydrazide	1071-93-8	OARS WEEL (United States, 1/2021). TWA: 25 ppm 8 hours. None.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Diethylene glycol monobutyl ether	112-34-5	CA Ontario Provincial (Canada, 6/2019). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapour.
2-Butoxyethanol	111-76-2	CA Alberta Provincial (Canada, 8/2018). 8 hrs OEL: 97 mg/m ³ 8 hours. 8 hrs OEL: 20 ppm 8 hours, CA British Columbia Provincial (Canada, 6/2021). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.
Diethylene glycol monoethyl ether	111-90-0	CA Ontario Provincial (Canada, 6/2019). TWA: 165 mg/m ³ 8 hours. TWA: 30 ppm 8 hours.

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
2-(2-butoxyethoxy)ethanol	112-34-5	ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-Butoxyethanol	111-76-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eyeface protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 8.1
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : 89 (butyl acetate = 1)

Section 9. Physical and chemical properties

Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 23.5%
Vapor pressure	: 2.3 kPa (17.5 mm Hg)
Relative vapor density	: 1 (Air = 1)
Relative density	: 1.05
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 2.317 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-Butoxyethoxy)-ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
2-(2-Ethoxyethoxy)-ethanol	LD50 Oral	Rat	7500 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/Ingredient name	Result	Species	Score	Exposure	Observation
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
2-Butoxyethanol	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
2-(2-Ethoxyethoxy)-ethanol	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/Ingredient name	OSHA	IARC	NTP
Amorphous Precipitated Silica	-	3	-
2-Butoxyethanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 3	-	Respiratory tract irritation
2-Butoxyethanol	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
2-(2-Ethoxyethoxy)-ethanol	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 2	-	-
2-Butoxyethanol	Category 2	-	-
2-(2-Ethoxyethoxy)-ethanol	Category 2	-	-

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	53921.7 mg/kg
Dermal	86176.73 mg/kg
Inhalation (vapors)	730.52 mg/l

Section 12. Ecological information

Toxicity

Product/Ingredient name	Result	Species	Exposure
2-(2-Butoxyethoxy)-ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
2-(2-Ethoxyethoxy)-ethanol	Acute LC50 1250000 µg/l Marine water	Fish - Meridia beryllina	96 hours
	Acute LC50 3340000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 6010000 µg/l Fresh water	Fish - Ictalurus punctatus	96 hours

Persistence and degradability

Product/Ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol	-	-	Roadily
2-Butoxyethanol	-	-	Readily

Bioaccumulative potential

Not available

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-

Section 14. Transport information

Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.) does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

International regulations

International lists :

- Australia Inventory (AIC)**: Not determined.
- China Inventory (IECSC)**: Not determined.
- Japan Inventory (CSCL)**: Not determined.
- Japan Inventory (ISHL)**: Not determined.
- Korea Inventory (KECI)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines Inventory (PICCS)**: Not determined.
- Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
- Thailand Inventory**: Not determined.
- Turkey Inventory**: Not determined.
- Vietnam Inventory**: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Flammability	2
Health Hazard	0
Reactivity	0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

Date of printing : 6/28/2022

Date of issue/Date of revision : 6/28/2022

Date of previous issue : 6/19/2022

Version : 2.03

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Date of revision	: 6/28/2022	Date of previous issue	: 6/19/2022	Version	: 2.03	12/12
AT95F0810	HYDROPLUS Waterborne Clear Topcoat 19 Shear				SHW-85-NA-GHS-CA	

SAFETY DATA SHEET

AT95F0020

Section 1. Identification

- Product name** : HYDROPLUS Waterborne Clear Topcoat
20 Gloss
- Product code** : AT95F0020
- Other means of identification** : Not available.
- Product type** : Liquid.
- Relevant identified uses of the substance or mixture and uses advised against**
Paint or paint related material.
- Manufacturer** : SAYERLACK, a brand of Sherwin-Williams
101 W. Prospect Avenue
Cleveland, OH 44115
- National contact** : Sherwin-Williams Canada Inc.
180 Brunel Road
Mississauga, Ontario L4Z 1T5 Canada
- Emergency telephone number of the company** : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
- Product Information Telephone Number** : US / Canada: 1-800-524-5979
Mexico: Not Available
- Regulatory Information Telephone Number** : US / Canada: (216) 566-2902
Mexico: Not Available
- Transportation Emergency Telephone Number** : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

- Classification of the substance or mixture** : SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3% (dermal), 4.6% (inhalation)

GHS label elements

Hazard pictograms :



- Signal word** : Warning
- Hazard statements** : May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** : Wear protective gloves. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.

Section 2. Hazards identification

Response	: Get medical advice or attention if you feel unwell. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
2-(2-Butoxyethoxy)-ethanol	3.12	112-34-6
2-Butoxyethanol	1.53	111-75-2
2-(2-Ethoxyethoxy)-ethanol	1.5	111-90-0
Adipohydrazide	0.55	1071-93-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. **Keep unnecessary and unprotected personnel from entering.** Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. **Wear appropriate respirator when ventilation is inadequate.** Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section B. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
2-(2-Butoxyethoxy)-ethanol	112-34-5	ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m ³ 10 hours OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours
2-(2-Ethoxyethoxy)-ethanol	111-90-0	OARS WEEL (United States, 1/2021). TWA: 25 ppm 8 hours.
Adipohydrazide	1071-93-8	None.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Diethylene glycol monobutyl ether	112-34-5	CA Ontario Provincial (Canada, 6/2019). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapour.
2-Butoxyethanol	111-76-2	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 97 mg/m ³ 8 hours. 8 hrs OEL: 20 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2021). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.
Diethylene glycol monoethyl ether	111-90-0	CA Ontario Provincial (Canada, 6/2019). TWA: 165 mg/m ³ 8 hours. TWA: 30 ppm 8 hours.

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
2-(2-butoxyethoxy)ethanol	112-34-5	ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-Butoxyethanol	111-76-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 8.1
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : 89 (butyl acetate = 1)

Section 9. Physical and chemical properties

Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 23.5%
Vapor pressure	: 2,3 kPa (17.5 mm Hg)
Relative vapor density	: 1 [Air = 1]
Relative density	: 1.04
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 2.308 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-Butoxyethoxy)-ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
2-(2-Ethoxyethoxy)-ethanol	LD50 Oral	Rat	1300 mg/kg	-
	LD50 Oral	Rat	7500 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/Ingredient name	Result	Species	Score	Exposure	Observation
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
2-Butoxyethanol	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
2-(2-Ethoxyethoxy)-ethanol	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/Ingredient name	OSHA	IARC	NTP
2-Butoxyethanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 3	-	Respiratory tract irritation
2-Butoxyethanol	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
2-(2-Ethoxyethoxy)-ethanol	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 2	-	-
2-Butoxyethanol	Category 2	-	-
2-(2-Ethoxyethoxy)-ethanol	Category 2	-	-

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	53465.15 mg/kg
Dermal	86571.63 mg/kg
Inhalation (vapors)	718.72 mg/l

Section 12. Ecological information

Toxicity

Product/Ingredient name	Result	Species	Exposure
2-(2-Butoxyethoxy)-ethanol 2-Butoxyethanol	Acute LC50 1300000 µg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i>	48 hours
2-(2-Ethoxyethoxy)-ethanol	Acute LC50 1250000 µg/l Marine water	Fish - <i>Meridia beryllina</i>	96 hours
	Acute LC50 3340000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 6010000 µg/l Fresh water	Fish - <i>Ictalurus punctatus</i>	96 hours

Persistence and degradability

Product/Ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol	-	-	Readily
2-Butoxyethanol	-	-	Readily

Bioaccumulation potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-

Section 14. Transport information

Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO Instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

International regulations

International lists :

- Australia Inventory (AIC)**: Not determined.
- China Inventory (IECSC)**: Not determined.
- Japan Inventory (CSCL)**: Not determined.
- Japan Inventory (ISHL)**: Not determined.
- Korea Inventory (KECI)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines Inventory (PICCS)**: Not determined.
- Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
- Thailand Inventory**: Not determined.
- Turkey Inventory**: Not determined.
- Vietnam Inventory**: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Flammability	2
Reactivity	0
Health	0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

Date of printing : 6/15/2022

Date of issue/Data of revision : 6/15/2022

Date of previous issue : 6/6/2022

Version : 2.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978, ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Data of revision : 6/15/2022	Date of previous issue : 6/6/2022	Version : 2.02	12/12
AT85FD020	HYDROPLUS Waterborne Clear Topcoat 20 G 068	SHW-83-NA-GHS-CA	

SAFETY DATA SHEET

A98XXW34972-4317

Section 1. Identification

Product name : Sherwin-Williams Industrial Coatings
SW 7011 NATURAL CHOICE

Product code : A98XXW34972-4317

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against
Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : (216) 566-2917

Product Information Telephone Number : Not available.

Regulatory Information Telephone Number : (216) 566-2902

Transportation Emergency Telephone Number : (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 2.3% (dermal), 3.5% (inhalation)

GHS label elements

Hazard pictograms :



Signal word :

Danger

Hazard statements :

May cause an allergic skin reaction.
Suspected of causing cancer
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General :

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Date of issue/Date of revision

: 3/16/2022

Date of previous issue

: 2/13/2022

Version : 4.01

1/14

A98XXW34972-4317 Sherwin-Williams Industrial Coatings
SW 7011 NATURAL CHOICE

SHW-85-NA-GHS-US

Section 2. Hazards identification

Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. Wash contaminated clothing before reuse. IF ON SKIN. Wash with plenty of water. If skin irritation or rash occurs. Get medical advice or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	<p>WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.</p> <p>This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.</p> <p>Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.</p>
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
2-(2-Butoxyethoxy)-ethanol	≤3	112-34-5
2-(2-Ethoxyethoxy)-ethanol	≤2.5	111-90-0
2-Butoxyethanol	≤2.4	111-76-2
Adipohydrazide	≤1	1071-93-8
1-Ethyl-2-Pyrrolidinone	≤0.3	2667-91-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in 'For non-emergency personnel'.

Environmental precautions : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	ACGIH TLV (United States, 1/2021). TWA: 10 mg/m ³ 8 hours. OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours, Form: Total dust
2-(2-Butoxyethoxy)-ethanol	112-34-5	ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-(2-Ethoxyethoxy)-ethanol	111-90-0	OAS WEEL (United States, 1/2021). TWA: 25 ppm 8 hours.
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m ³ 10 hours OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours.
Adipohydrazide	1071-93-8	None.
1-Ethyl-2-Pyrrolidone	2687-91-4	None.

Occupational exposure limits (Canada)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	<p>CA British Columbia Provincial (Canada, 1/2021). TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction</p> <p>CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m³ 8 hours. Form: Total dust</p> <p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours.</p> <p>CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.</p>
Dioethylene glycol monobutyl ether	112-34-5	<p>CA Ontario Provincial (Canada, 6/2019). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapour.</p>
Diethylene glycol monoethyl ether	111-90-0	<p>CA Ontario Provincial (Canada, 6/2019). TWA: 165 mg/m³ 8 hours. TWA: 30 ppm 8 hours.</p>
Ethylene glycol monobutyl ether	111-76-2	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 97 mg/m³ 8 hours. 8 hrs OEL: 20 ppm 8 hours.</p> <p>CA British Columbia Provincial (Canada, 1/2021). TWA: 20 ppm 8 hours.</p> <p>CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours.</p> <p>CA Quebec Provincial (Canada, 7/2019). TWAEV: 20 ppm 8 hours. TWAEV: 97 mg/m³ 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.</p>

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
2-(2-butoxyethoxy)ethanol	112-34-5	<p>ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor</p>
2-Butoxyethanol	111-76-2	<p>NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.</p>

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Section 8. Exposure controls/personal protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 7.8
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : 89 (butyl acetate = 1)
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Lower: 0.9%
Upper: 23.5%

Section 9. Physical and chemical properties

Vapor pressure	: 2.3 kPa (17.5 mm Hg)
Relative vapor density	: 1 [Air = 1]
Relative density	: 1.18
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40 °C (104 °F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 1.873 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/Ingredient name	Result	Species	Dose	Exposure
2-(2-Butoxyethoxy)-ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
2-(2-Ethoxyethoxy)-ethanol	LD50 Oral	Rat	7500 mg/kg	-
	LCLo Inhalation Vapor	Guinea p.g	>3.1 mg/l	1 hours
LD50 Dermal		Guinea p.g	>2000 mg/kg	
1-Ethyl-2-Pyrrolidinone	LD50 Oral	Rat	1300 mg/kg	-
	LD50 Oral	Rat	1350 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 µg l	-
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
2-(2-Ethoxyethoxy)-ethanol	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
2-Butoxyethanol	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
1-Ethyl-2-Pyrrolidinone	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
2-Butoxyethanol	-	3	-

Reproductive toxicity

Not available

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 3	-	Respiratory tract irritation
2-(2-Ethoxyethoxy)-ethanol	Category 3	-	Narcotic effects
	Category 3		Respiratory tract irritation
2-Butoxyethanol	Category 3	-	Narcotic effects
	Category 3		Respiratory tract irritation
	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 2	-	-
2-(2-Ethoxyethoxy)-ethanol	Category 2	-	-
2-Butoxyethanol	Category 2	-	-

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
Ingestion : Adverse symptoms may include the following:
reduced fetal weight;
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : May damage the unborn child.
Developmental effects : No known significant effects or critical hazards
Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

Route	ATE value
Oral	71975.23 mg/kg
Dermal	115802.07 mg/kg
Inhalation (vapors)	972.21 mg/l

Section 12. Ecological information

Toxicity

Product/Ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 3340000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
2-(2-Butoxyethoxy)-ethanol	Acute LC50 6010000 µg/l Fresh water	Fish - Ictalurus punctatus	96 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

Product/Ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol	-	-	Readily
2-Butoxyethanol	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

Section 13. Disposal considerations

and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

**Transport in bulk according
to IMO instruments :** Not available

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 5(a)2 proposed significant new use rules: 1-Ethyl-2-Pyrrolidinone

TSCA 5(a)2 final significant new use rules: Fluoropolymer

U.S. name	Chemical name	Notes
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Unlabeled - TSCA 5(a)2	Fluoropolymer	
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Z - Final significant new use rules

This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

SARA 311

SARA 311 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

Section 15. Regulatory information

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists :

- Australia Inventory (AIC):** Not determined.
- China Inventory (IECSC):** Not determined.
- Japan Inventory (CSCL):** Not determined.
- Japan Inventory (JSHL):** Not determined.
- Korea Inventory (KECI):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines Inventory (PICCS):** Not determined.
- Taiwan Chemical Substances Inventory (TCSI):** Not determined.
- Thailand Inventory:** Not determined.
- Turkey Inventory:** Not determined.
- Vietnam Inventory:** Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Flammability	2
Reactivity	0
Physical Hazard	0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

Date of printing : 3/16/2022

Date of issue/Date of revision : 3/16/2022

Date of previous issue : 2/13/2022

Version : 4.01

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labeling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group

Section 16. Other information

UN = United Nations

☒ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

R6K25

Section 1. Identification

Product name : 2-Butoxyethanol

Product code : R6K25

Other means of identification : Not available.

CAS # : 111-76-2

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

National contact : Sherwin-Williams Canada Inc.
180 Brunel Road
Mississauga, Ontario L4Z 1T5 Canada

Emergency telephone number of the company : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number : US / Canada: 866-722-9710
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (216) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 4
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements

Hazard pictograms :



Date of issue/Data of revision

: 6/16/2022

Date of previous issue

: 5/27/2021

Version : 10

1/13

R6K25

2-Butoxyethanol

SHW-B5-NA-GHS-CA

Section 2. Hazards identification

- Signal word** : Warning
- Hazard statements** : Combustible liquid.
Harmful if swallowed or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** : Wear protective gloves, protective clothing and eye or face protection. Keep away from flames and hot surfaces. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- Response** : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- Storage** : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and International regulations.
- Supplemental label elements** : DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR INDUSTRIAL USE ONLY.
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Substance
- Other means of identification** : Not available.

CAS number/other identifiers

- CAS number** : 111-76-2

Ingredient name	% by weight	CAS number
2-Butoxyethanol	100	111-76-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : Harmful if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 4. First aid measures

- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours.

Occupational exposure limits (Canada)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
2-Butoxyethanol	111-76-2	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 97 mg/m³ 8 hours. 8 hrs OEL: 20 ppm 8 hours.</p> <p>CA British Columbia Provincial (Canada, 6/2021). TWA: 20 ppm 8 hours.</p> <p>CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours.</p> <p>CA Quebec Provincial (Canada, 8/2021). TWAEV: 20 ppm 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.</p>

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
2-Butoxyethanol	111-76-2	<p>NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.</p>

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- Eyeface protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 162°C (323.6°F)
- Flash point** : Closed cup: 62°C (143.6°F) [Tagliabue Closed Cup]
- Evaporation rate** : 0.08 (butyl acetate = 1)
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Lower: 1.1%
Upper: 10.6%
- Vapor pressure** : 0.12 kPa (0.88 mm Hg)
- Relative vapor density** : 4.1 (Air = 1)
- Relative density** : 0.9
- Solubility** : Not available.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
- Molecular weight** : Not applicable.

Aerosol product

- Heat of combustion** : 29.6 kJ/g

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressure, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Butoxyethanol	LC ₅₀ Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD ₅₀ Dermal	Guinea pig	>2000 mg/kg	-
	LD ₅₀ Oral	Rat	1300 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2-Butoxyethanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-Butoxyethanol	Category 3	-	Respiratory tract irritation
	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
2-Butoxyethanol	Category 2	-	-

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : Harmful if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- General** : May cause damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.

Section 11. Toxicological information

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	1300 mg/kg
Inhalation (vapors)	11 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Butoxyethanol	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

International regulations

International lists :

- Australia Inventory (AIC):** Not determined.
- China Inventory (IECSC):** Not determined.
- Japan Inventory (CSCL):** Not determined.
- Japan Inventory (ISHL):** Not determined.
- Korea Inventory (KECI):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines Inventory (PICCS):** Not determined.
- Taiwan Chemical Substances Inventory (TCSI):** Not determined.
- Thailand Inventory:** Not determined.
- Turkey Inventory:** Not determined.
- Vietnam Inventory:** Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	2
Flammability	2
Reactivity	0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 4	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

Date of printing	: 6/16/2022
Date of issue/Date of revision	: 6/16/2022
Date of previous issue	: 9/27/2021
Version	: 10
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labeling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer.

Section 16. Other information

or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.



Safety Data Sheet

Date Issued:

09/07/2022

Colortools Water Base Wiping Stain Clear Base

SECTION 1: IDENTIFICATION

Product Name	Colortools Water Base Wiping Stain Clear Base
Product Code #	230550.00
Manufacturer	Rudd Company, Inc.
Address	1141 NW 50th Street Seattle, WA 98107
Phone	Local: (206) 789-1000 Toll Free: (800) 444-7833
Emergency Contact	CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300 International CHEMTREC, call: 1-800-255-3924
Recommended Use/Restrictions	For Wood Substrates Only.

SECTION 2: HAZARD(S) IDENTIFICATION

Classifications	N/A
Pictograms	N/A
Signal Word	N/A
Hazard Statements	N/A
Precautionary Statements	N/A
Percent of the mixture consisting of ingredient(s) of unknown toxicity	To the best of our knowledge, there are no additional ingredient(s) present requiring hazardous reporting or health warnings.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Components	% of Comp.	CAS No.
N/A	N/A	N/A

SECTION 4: FIRST AID MEASURES

General Advice	Have Safety Data Sheet available when calling Poison Control Center (1-800-222-1222) or physician; or when going to the emergency room.
Eyes	Flush eye with plenty of water for 15 minutes, while lifting eyelid. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, get medical attention. May cause eye burns. Get medical attention.
Skin	Wash skin with soap and water. Though not expected, if irritation occurs, get medical attention.



Safety Data Sheet

Date Issued

03/07/2022

ColorTools Water Base Wiping Stain Clear Base

Inhalation	Though not expected, if breathing is difficult, move to fresh air. If difficulty persists, get medical attention.
Ingestion	Irritation may occur. If irritation persists get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Fire Hazard	No
Extinguishing Media	Foam, CO2, Dry Chemical, Water Mist
Special Protective Equipment and Firefighting Procedures	Evacuate all unnecessary personnel. Use full protective equipment. Cool closed containers to prevent pressure build-up. Do not allow product or runoff from fire control measures to enter storm or sanitary sewers or waterways.
Unusual Fire & Explosion	Material may splatter when heated. Dried film may burn.
Hazardous Combustion Products	See Section 10

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Keep container closed to avoid spill or accidental release. If spilled, wear safety glasses, protective gloves and other personal protective equipment when cleaning spilled material.
Spills / Leaks	If spill/leak occurs wear protective equipment. Dike drains to prevent entering storm or sanitary sewers, rivers, streams, or waterways. Contain spill and cover with inert absorbent material. Place collected material into containers and dispose of according to local and federal regulations.

SECTION 7: HANDLING AND STORAGE

Handling	Handle using good industrial hygiene and safety practices. Avoid breathing vapors, spray mists, or dusts. Avoid contact with eyes and skin. Do not take internally. Use adequate ventilation, respiratory and personal protection. Avoid spraying hot surfaces.
Storage	Keep container closed when not in use and during transit. Store in a sealed container in a cool, dry environment. Keep from freezing. Use adequate ventilation. Follow label warnings until thoroughly cleaned or until container is sent for disposal. Do not remove or deface labels until empty containers have been destroyed or thoroughly cleaned. Do not transfer product to unlabeled containers. Do not store above 120 deg. F (50 deg. C).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



Safety Data Sheet

Date Issued

06-07-2022

Colortools Water Base Wiping Stain Clear Base

Exposure Limits

Chemical Description
N/A

OSHA PEL
N/A

ACGM TLV
N/A

Other
N/A

Engineering Controls

USE WITH ADEQUATE VENTILATION. Open all doors and windows to achieve cross-ventilation or provide mechanical ventilation in work and surrounding areas. Maintain cross-ventilation during and after application until all vapors and fumes are gone.

Personal Protective Equipment

- Hand** Wear gloves to prevent skin contact. Wash hands with soap and water after using and before eating or using tobacco products.
- Eyes** Wear safety glasses to protect from liquid splash. Ensure eye wash and safety showers are near workstations.
- Skin** Avoid contact with skin.
- Respiratory** Ensure fresh air entry during application and drying. Though not expected, increase ventilation if irritation occurs. Wear respirator with particulate filter or dust mask to avoid breathing sanding dusts if needed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to semi-transparent liquid	Upper Flammability/Explosive Limit	No Data
Odor	Mild	Lower Flammability/Explosive Limit	No Data
pH value	04.1 - 08.0	Vapor Pressure	No Data
Freezing Point (F)	No Data	Vapor Density	No Data
Boiling Point (F)	No Data	Vapor Temperature	No Data
Boiling Range	No Data	Relative Density/Specific Gravity	8.67287
Flash Point (F)	Not Applicable	Solubility	Water Soluble
Flash Point Method Used	P Marten	Partition Coefficient	No Data
Evaporation Rate	Slower than butyl acetate	Auto-Ignition Temperature	No Data
Flammability	No	Decomposition Temperature	No Data
Viscosity	See Tech Data Sheet		

SECTION 10: STABILITY AND REACTIVITY

- Chemical Reactivity** Will not occur.
- Chemical Stability** Stable.



Safety Data Sheet

Date Issued

06/07/2022

ColorTools Water Base Wiping Stain Clear Base

Conditions to Avoid

High temperatures and humidity

Materials to Avoid

Not Applicable.

Hazardous Decomposition

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION**Acute Toxicity**

Reportable Components

LD50 Oral

LC50 Inhalation

LD01 Dermal

N/A

N/A

N/A

N/A

Inhalation**Description of Effects From Short- and Long-Term Exposure:**

Though not expected, vapor and mist may irritate nose, throat, and lungs. Move to fresh air. Dust, sanding dusts and particles may cause nose and throat irritation.

Ingestion**Description of Effects From Short- and Long-Term Exposure:**

Swallowing may cause irritation.

Eyes**Description of Effects From Short- and Long-Term Exposure:**

Contact with liquid may cause irritation.

Skin**Description of Effects From Short- and Long-Term Exposure:**

Contact may cause mild irritation.

Carcinogen Information

Product does not contain carcinogen at or above reportable concentration.

Carcinogens Listing

NTP No

IARC No

OSHA No

SECTION 12: ECOLOGICAL INFORMATION



Safety Data Sheet

Date Issued

05-01-2022

ColorTools Water Base Wiping Stain Clear Base

Aquatic Toxicity Not Applicable.

Biodegradability Readily biodegradable

Bioaccumulation Not expected

SECTION 13: DISPOSAL CONSIDERATION

Waste materials and empty container must be disposed of in accordance with applicable federal, state/provincial, and local regulations. Regulations may vary by location

SECTION 14: TRANSPORT INFORMATION

DOT Description

WATERBASE PAINT, NOT REGULATED

SECTION 15: REGULATORY INFORMATION

TSCA Status In compliance with TSCA inventory requirements for commercial purposes

SARA 312 Regulated Chemical(s)

SARA 313 Regulated Chemical(s)

California Prop. 65 Not Applicable.

PA Right to know Chemical(s)

NJ Right to know Chemical(s)

MA Right to know Chemical(s)

Canada Not Applicable.

Additional Regulatory Information Not Applicable.



Safety Data Sheet

Date Issued

06/07/2022

ColorTools Water Base Wiping Stain Clear Base

SECTION 16: OTHER INFORMATION

HMIS

ColorTools Water Base Wiping Stain

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

HMIS® Hazardous Material Information System

HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risk, and 4 representing significant hazards or risks. HMIS was developed as a means of identifying and communicating workplace hazards associated with paints and coatings. Ratings are to be used with a fully implemented HMIS program. The workplace employer is responsible for determining the Personal Protection (PPE) code of this material.

HMIS® is the registered mark of the American Coatings Association (ACA)

DISCLAIMER

THE INFORMATION CONTAINED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE RELIABLE. TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ALL INFORMATION IS ACCURATE AND IS PROVIDED IN GOOD FAITH. HOWEVER, NO GUARANTEE OF ACCURACY IS MADE OR IMPLIED.

Safety Data Sheet (SDS)

Jem Chemical Company

Jem Strip 427

SDS Number: 133

Revision Date: 2/5/2015

Page 1 of 10

PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Jem Chemical Company
814 Castro St
San Leandro, CA 94577

Contact: Jem Chemical Company
Phone: +1-888-243-8249 / +1-925-634-8248
Fax: +1-925-634-1806
Email: chembiz@earthlink.net
Web: www.jemchemical.com

Product Name: Jem Strip 427
Revision Date: 2/5/2015
Version: 1
SDS Number: 133
Common Name: Mild Alkaline Organic Solvent Mixture
CAS Number: MIXTURE
Product Code: JE-427A
Chemical Family: Mild Alkaline Organic Solvent Mixture
Chemical Formula: *** PROPRIETARY ***
Synonyms: Organic Stripper
Product Use: Hot Tank Stripper with Oil Seal. Powerful immersion paint remover that quickly strips painted, powder-coated, and electroplated surfaces.
Emergency Phone: +1-800-424-9300 (CHEMTREC)

HAZARDS IDENTIFICATION

NFPA:
HMIS III.



Health = 3, Fire = 1, Reactivity = 0
H313/H314/P103

HMIS II	
HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

PERSONAL PROTECTION:
H | Splash Goggles,
Gloves, Apron, Vapor
Respirator

PERSONAL PROTECTION INDEX	
1	2
3	4
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Jem Strip 427

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GHS Signal Word
DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Health, Acute toxicity, 4 Oral
- Health, Aspiration hazard, 1
- Health, Acute toxicity, 4 Dermal
- Health, Skin corrosion/irritation, 1B
- Health, Acute toxicity, 4 Inhalation
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Reproductive toxicity, 1

GHS Phrases

- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H312 - Harmful in contact with skin
- H314 - Causes severe skin burns and eye damage
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H360 - May damage fertility or the unborn child

GHS Precautionary Statements

- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P280 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area
- P273 - Avoid release to the environment
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P301-310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301-330-331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303-361-353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304-340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305-351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P321 - Specific treatment (see supplementary first aid instructions on this label)
- P352 - Take off contaminated clothing and wash before reuse.
- P403+233 - Store in a well-ventilated place. Keep container tightly closed.
- P403+235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.
- P501 - Dispose of contents/container to an approved waste disposal plant

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

CAS #	Percentage	Chemical Name
872-50-4	<60%	N-Methyl-2-pyrrolidone
141-43-5	<20%	Ethanol, 2-amino-
64742-65-0	<10%	Distillates, petroleum, solvent-dewaxed heavy paraffinic
427879-79-0	<5%	D-Glucosonic acid, compound with 2,2',2''-nitriilotrisethanol (1:1)
26405-61-2	<5%	D-Glucosonic acid, compound with aminoethanol (1:1)
5916-45-9	<5%	Poly(oxy 1,2-ethanedioyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-
N/A	>5	Proprietary, not hazardous, non-regulated

FIRST AID MEASURES

Inhalation:	Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact:	Take off contaminated clothing and shoes immediately. Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
Eye Contact:	Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
Ingestion:	Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11. This material has an aspiration hazard. Any potential danger from aspiration must be weighed against possible oral toxicity when determining whether to induce vomiting. Consider activated charcoal and/or gastric lavage. Any aspirated material may contain corrosive and toxic material which may contribute to lung damage due to aspiration.

Indication of any immediate medical attention and special treatment needed:

No data available

FIRE FIGHTING MEASURES

Flammability:	Not determined
Flash Point:	> 300° F (148.9° C)
Flash Point Method:	(TCC)
Burning Rate:	No data available
Autoignition Temp.:	No data available
LEL:	No data available
UEL:	No data available

Extinguishing Media:

Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

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Carbon Oxides
Hydrocarbon particulate
Nitrogen Oxides (NOx)

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.

Use water spray to cool unopened containers.

Do NOT use high volume water jet to extinguish fire, as the force of the water jet may cause fire to spread.

See Section 7 for more information on safe handling.

See Section 8 for more information on personal protection equipment.

See Section 13 for disposal information.

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition.

Use personal protective equipment.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions:

Prevent further release (leakage/spillage) if safe to do so.

Do not allow product to enter drains.

Do not allow to drain to environment.

Methods and materials for containments and cleaning up:

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

Neutralizing agent: No Sodium Bicarbonate may also be used to absorb/neutralize any spilled material.

Spill may also be diluted with equal volume of water and absorbed (as above) or collected with an electrically-protected vacuum cleaner or by wet-brushing.

Place contaminated material into suitable closed containers for disposal.

Dispose of contaminated material according to Section 13.

After spillage has been collected, area may be flushed with water or wet-brushed.

Ensure adequate ventilation.

Reference to other sections:

Comply with federal, state and local regulations on reporting spills.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on proper disposal.

HANDLING AND STORAGE

Handling Precautions:

Avoid breathing vapors or mist.

Avoid contact with eyes, skin, or clothing.

Use approved, original containers only.

Keep containers closed when not in use.

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Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not puncture or drop containers.
Handle with care and avoid spilling on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.
Ensure adequate ventilation.

Storage Requirements:
Keep container tightly closed.
Avoid inhalation of vapors or mist upon opening container.
Store in a well-ventilated place.
Do not store at temperatures below 0 °C/32 °F exceeding 43.3 °C/110 °F.
Do not store in direct sunlight.
Store only in original container.
Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, Iron, Copper and its alloys (Brass, etc.) and Rubber.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at fuming zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip: Eyeface protection.
When using material use safety goggles, gloves and apron and vapor respirator according to HMIS P2-H. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:
Handle with gloves made from Viton, Nitrile or Buna rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:
Chemically resistant safety goggles, gloves, apron and vapor respirator are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:
Full-face vapor respirator is highly recommended as a backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure:
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Component(s): n-Methyl-2-pyrrolidone, Ethanol-2-amino-, Distillates, petroleum, solvent-dewaxed heavy paraffinic
CAS No(s): 872-50-4, 141-43-5, 64742-66-0
USA ACGIH (TWA/TLV): 3 ppm
USA ACGIH (STEL/TVA): 6 ppm
USA OSHA - Table Z-1 Limits for Air Contaminants (TWA): 3 ppm

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USA OSHA - Table Z-1 Limits for Air Contaminants (STEL): 6 ppm
USA OSHA Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants (TWA): 3 ppm
USA NIOSH Recommended Exposure Limits (TWA): 3 ppm
USA NIOSH Recommended Exposure Limits (ST): 6 ppm
USA Workplace Environmental Exposure Levels (WEEL/TWA): 10 ppm

Biological occupational exposure limits:

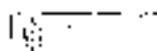
Component: n-Methyl-2-pyrrolidone
CAS-No: 872-50-4
Parameters: 5-Hydroxy-N-methyl-2-pyrrolidone
Biological Specimen: Urine
USA ACGIH Biological Exposure Indices: 100 mg/L

Derived No Effect Level (DNEL):

Component: n-Methyl-2-pyrrolidone
CAS-No: 872-50-4
Inhalation - Workers (Acute systemic effects): 208 mg/kg BW/d
Skin Contact - Workers (Acute systemic effects): 80 mg/m²
Inhalation - Workers (Long-term systemic effects): 19.8 mg/kg BW/d
Skin Contact - Workers (Long-term systemic effects): 40 mg/m²

Predicted No Effect Concentration (PNEC):

Component: n-Methyl-2-pyrrolidone
CAS-No: 872-50-4
Water: 5 mg/l
Soil: 0.138 mg/kg
Marine Water: 0.025 mg/kg
Fresh Water: 0.25 mg/l
Fresh Water Sediment: 0.805 mg/kg
On-site Sewage Treatment Plant: 10 mg/l



PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow Liquid	Odor:	Amino-Like
Physical State:	Liquid	Molecular Formula:	MIXTURE
Odor Threshold:	Not determined	Solubility:	100%
Particle Size:	No data available	Softening Point:	Not determined
Spec Grav./Density:	0.960 g/cm ³ (6.26 lbs/gal)	Percent Volatile:	69.7%
Viscosity:	Not determined	Heat Value:	Not determined
Sat. Vap. Conc.:	Not determined	Freezing/Melting Pt.:	Not determined
Boiling Point:	300 - 400° F (148.9 - 204.4° C)	Flash Point:	> 300° F (148.9° C)
Flammability:	(solid/gas) Not determined	Octanol:	Not determined
Partition Coefficient:	Not determined	Vapor Density:	(air = 1) > 10
Vapor Pressure:	(mm Hg @ 25 °C): < 0.0001	VOC:	690 g/L
pH:	@ 1%: 11.6	Bulk Density:	Not determined
Evap Rate:	(Butyl Acetate = 1): 0.001	Auto-Ignition Temp:	Not determined
Molecular weight:	MIXTURE	UFL/LFL:	Not determined
Decomp Temp:	Not determined		

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STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities: flames, ignition sources
Materials to Avoid:	Strong acids, strong bases, strong oxidizing agents, strong reducing agents, Iron, Copper and its alloys (Brass, etc.) and Rubber.
Hazardous Decomposition:	Carbon Oxides, Hydrocarbon particulate and Nitrogen Oxides (NOx)
Hazardous Polymerization:	Will not occur



TOXICOLOGICAL INFORMATION

Component(s): n-Methyl-2-pyrrolidone; Ethanol-2-amino-; Distillates petroleum, solvent-dewaxed heavy paraffin c, Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy
CAS No(s): 872-50-4; 141-43-6; 64742-65-0; 8016-45-9

Acute Toxicity:

LC50 Oral - Rat: 1,720 mg/kg
LD50 Dermal - Rabbit: 1,015 mg/kg
LC50 Inhalation - Rat: > 5 mg/l (4 h)
LDLo Inhalation - Rat: 5100 ppm (4 h)
LD50 Intraperitoneal - Mouse: 168 mg/kg

Skin Corrosion/Irritation: No data available.

Serious Eye Damage/Eye Irritation: Rabbit eyes - Serious eye irritation.

Respiratory or Skin Sensitation: Certain reactions were observed for sensitive people.

Gen Cell Mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: Damage to fetus possible. NOEL Teratogenicity Oral - Rat: 50 mg/kg. Effects on development were observed.

Specific Target Organ Toxicity - Single Exposure: Inhalation - May cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure: No data available

Aspiration Hazard: Product has an aspiration hazard. Aspiration into the lungs when swallowed or vomited may cause chemical pneumonia which can be fatal.

Additional Information:

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Component: n-Methyl-2-pyrrolidone, RTECS UY579000

Component: Ethanol-2-amino-, RTECS KJ5775000

Component: Distillates, petroleum, solvent-dewaxed heavy paraffinic, RTECS PY6038500

Component: Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, RTECS AX5247000

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ECOLOGICAL INFORMATION

Component(s): n-Methyl-2-pyrrolidone; Ethanol-2-amino-; Distillates, petroleum, solvent-dewaxed heavy paraffinic;

Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-

CAS No(s): 872-50-4; 141-43-5; 64742-85-0; 6016-45-9

Toxicity:

Toxicity to fish:

LC50 - Lepomis macrochirus (Bluegill): 1.0 mg/l (96 h)

Mortality NOEC - Pimephales promelas (Fathead Minnow): 2.0 mg/l (72 h)

Mortality LOEC - Pimephales promelas (Fathead Minnow): 1.8 mg/l (72 h)

Toxicity to daphnia and other aquatic invertebrates (fresh water)

Mortality NOEC - Daphnia magna (Water Flea): 10.0 mg/l (144 h)

Mortality LOEC - Daphnia magna (Water Flea): 20.0 mg/l (144 h)

EC50 - Daphnia magna (Water Flea): 12.2 - 17.0 mg/l (48 h)

Toxicity to algae

EC50 - Desmodesmus subcapitatus (Green Algae): 1.5 mg/l (72 h)

Growth inhibition LOEC - Pseudokirchneriella subcapitata: 16.0 mg/l (96 h)

Growth inhibition NOEC - Pseudokirchneriella subcapitata: 8.0 mg/l (96 h)

Persistence and Degradability:

Major constituents are expected to be readily biodegradable, but the product contains components that may persist in the environment.

Bioaccumulative potential:

Most of the hydrocarbon blocks comprising "Distillates, petroleum, solvent-dewaxed heavy paraffinic" have a $\log_{10} K_{ow} > 0$, indicating that these constituents have a potential to bioaccumulate.

Mobility in Soil:

No data available

Results of PBT and vPvB assessment:

Not required/conducted.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

Toxic to aquatic life with long-lasting effects.

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DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.



TRANSPORT INFORMATION

DOT Class: Corrosive (8) #8

UN #: UN 3267, Class 8, Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (containing Ethanolamine)

DOT (US)

UN Number: 3267

Class: 8

Packing Group: III

ERG #: 153

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (containing Ethanolamine)

Marine Pollutant: No

Poison Inhalation Hazard(s): No

IMDG

UN Number: 3267

Class: 8

Packing Group: III

EMS No: F-A, S-B

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (containing Ethanolamine)

Marine Pollutant: No

IATA

UN Number: 3267

Class: 8

Packing Group: III

ERG #: 153

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (containing Ethanolamine)

Marine Pollutant: No



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REGULATORY INFORMATION

COMPONENT / (CAS#PERC) / CODES

- *Methyl-2-pyrrolidone (872504 <50%) MASS, NJHS, PA, PROP65, SARA311/312, SARA313, TSCA
- *Ethanediol, 2-amino- (141435 <40%) HAP, MASS, NJHS, OSHAWAC, PA, SARA311/312, TSCA, TXAIR
- *Distillates, petroleum, solvent-dowaxed heavy paraffinic (64742850 <10%) NJHS, TSCA
- *D-Gluconic acid, compound with 2,2',2''-nitilotrisethanol (1:1) (42728-79-0) TSCA
- *D-Gluconic acid, compound with aminoethanol (1:1) (20405-01-2 <5%) TSCA
- *Poly(oxy 1,2-ethaned-yl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9016450 <5%) NJHS, PA, SARA311/312, TSCA

REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance
CSWIS = Clean Water Act Hazardous Substances
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
NJHS = New Jersey Right to Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
PROP65 = CA Prop 65
SARA311/312 = SARA 311/312 Toxic Chemicals
SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that Jem Chemical Company believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Jem Chemical Company's control, Jem Chemical Company makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

Preparation Information:

GHS Conversion Services
www.ghsconversionservices.com
(659) 235-0304

W. D. LOCKWOOD®

49 WALKER ST., 1ST FLOOR, NYC, NY 10013
PHONE: (212) 996-4048 FAX: (212) 241-5016
WWW.WDLOCKWOOD.COM

SAFETY DATA SHEETS (SDS)

MANUFACTURER: W.D. LOCKWOOD & CO., INC.
ADDRESS: 49 WALKER ST
NEW YORK, NY 10013
TELEPHONE: (212) 996-4048 / (212) 226-2878

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: 898 Fruitwood
SYNONYM: WOOD-STAIN POWDER
MANUFACTURED BY: W.D. LOCKWOOD & CO., INC.
49 WALKER ST
NEW YORK, NY 10013
PHONE: (212) 996-4048
EMERGENCY: (917) 655-0814
sales@wdlockwood.com

SECTION 2: HAZARDS IDENTIFICATION

COMPONENTS: NONE AS PER 29CFR PART 1910.1200

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COLOR INDEX NAME: NONE - MIXTURE ACID DYESTUFFS
NOTE: INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY AND NON-HAZARDOUS.

CHEMICAL FAMILY: ACID DYESTUFFS
CHEMICAL FORMULA: PROPRIETARY
T.S.C.A. STATUS: INGREDIENTS LISTED
RTECS NO.: N/A

W. O. LOCKWOOD®

19 WALKER ST. 15701005, NEW YORK, NY 10011
PHONE: 800 293 8911 FAX: 212 274 9616
WWW.WOLOCKWOOD.COM

SECTION 4: EMERGENCY FIRST AID MEASURES

INHALATION: IF INHALED, MOVE TO FRESH AIR. IF DIFFICULTY IN BREATHING, ADMINISTER OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, GIVE SEVERAL GLASSES OF MILK OR WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

EYE CONTACT: FLUSH EYES WITH FLOWING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN.

SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN, REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: CO 2, DRY CHEMICAL OR WATER

SPECIAL PROCEDURES FOR FIGHTING FIRE: WEAR SCBA

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WHERE EXPOSURE IS NOT KNOWN, WEAR A NIOSH APPROVED DUST RESPIRATOR. SWEEP OR SHOVEL SPILLS INTO A WASTE DISPOSAL CONTAINER. USE AN ABSORBANT TO PREVENT DUSTING. WASH DOWN THE AREA WITH WATER.

WASTE DISPOSAL: DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL GOVERNMENTAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH DUE CARE AND AVOID PERSONAL CONTACT. STORE AT ROOM TEMPERATURE. KEEP DRY. KEEP LID ON TIGHT TO AVOID CONTAMINATION.

W. D. LOCKWOOD®

49 WALKER ST., 1ST FLOOR, NYC, NY 10014
PHONE: 800.295.8913 FAX: 212.274.9616
WWW.WDLOCKWOOD.COM

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST RESPIRATOR.

VENTILATION: LOCAL EXHAUST TO MINIMIZE EXPOSURE.

PROTECTIVE GLOVES: WEAR RUBBER OR NEOPRENE GLOVES.

EYE PROTECTION: WEAR GOGGLES, WITH SIDE SHIELD IF NECESSARY.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: BROWN POWDER, NO ODOR.

SOLUBILITY IN WATER: 170 GL.

BOILING POINT: NOT APPLICABLE.

VAPOR PRESSURE
[mmHg @ 20°C] NO DATA

VAPOR DENSITY (AIR=1): NO DATA

PH: APPROX 6.5

SPECIFIC GRAVITY: ABOUT 1

% VOLATILE BY VOLUME: NEGLIGIBLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBLE MATERIALS: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE OXIDES OF CARBON AND NITROGEN.

W. D. LOCKWOOD[®]

49 WALKER ST., 1ST FLOOR, LANSING, MI 48202
PHONE 866.293.5001 FAX 313.274.0616
WWW.WDLOCKWOOD.COM

SECTION 11: TOXICOLOGICAL INFORMATION (HEALTH HAZARD EFFECTS DATA)

ANIMAL TOXICITY: NO EVALUATION FOR THIS PRODUCT. EVALUATION BASED ON COMPONENT EXTRACT
- **ORAL:** NE
- **EYE EFFECTS:** MILD IRRITANT - RABBIT
- **SKIN EFFECTS:** NE

HUMAN EFFECTS: TEMPORARY IRRITANT TO SKIN, NASAL PASSAGE AND BRONCHIA. EYE IRRITANT,
BUT NOT CAUSING CORNEAL DAMAGE. AS A STANDARD PRECAUTION WITH
ALL DYES AND CHEMICALS, AVOID UNNECESSARY PERSONAL CONTACT.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 13: DISPOSAL CONSIDERATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 14: TRANSPORTATION INFORMATION (NON-MANDATORY)

NOT DOT REGULATED

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

NO RESTRICTION OR REGULATION IS KNOWN

SECTION 16: OTHER INFORMATION

PREPARED BY: HERB SCHIFFRIN | PRODUCT SAFETY DIRECTOR | W.D. LOCKWOOD & CO., INC.

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SAFETY DATA SHEETS (SDS)

MANUFACTURER: W.D. LOCKWOOD & CO., INC.

ADDRESS: 49 WALKER ST
NEW YORK, NY 10013

TELEPHONE: (212) 866-4046 / (212) 226-2878

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: **163 Weathered Oak**

SYNONYM: WOOD STAIN POWDER

MANUFACTURED BY: W.D. LOCKWOOD & CO., INC.
49 WALKER ST
NEW YORK, NY 10013
PHONE: (212) 866-4046
EMERGENCY: (917) 655-0614
sales@wdlockwood.com

SECTION 2: HAZARDS IDENTIFICATION

COMPONENTS: NONE AS PER 29CFR PART 1910.1200

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COLOR INDEX NAME: NONE - MIXTURE ACID DYE STUFFS
NOTE: INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY AND NON-HAZARDOUS.

CHEMICAL FAMILY: ACID DYE STUFFS

CHEMICAL FORMULA: PROPRIETARY

T.S.C.A. STATUS: INGREDIENTS LISTED

RYECS NO.: N/A

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41 WALKER ST., 1ST FLOOR, NYC, NY 10022
PHONE: 800.333.4411 FAX: 212.274.0675
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SECTION 4: EMERGENCY FIRST AID MEASURES

INHALATION: IF INHALED, MOVE TO FRESH AIR. IF DIFFICULTY IN BREATHING, ADMINISTER OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, GIVE SEVERAL GLASSES OF MILK OR WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

EYE CONTACT: FLUSH EYES WITH FLOWING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN.

SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: CO 2, DRY CHEMICAL OR WATER

SPECIAL PROCEDURES FOR FIGHTING FIRE: WEAR SCBA

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WHERE EXPOSURE IS NOT KNOWN, WEAR A NIOSH APPROVED DUST RESPIRATOR. SWEEP OR SHOVEL SPILLS INTO A WASTE DISPOSAL CONTAINER. USE AN ABSORBANT TO PREVENT DUSTING. WASH DOWN THE AREA WITH WATER.

WASTE DISPOSAL: DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL GOVERNMENTAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH DUE CARE AND AVOID PERSONAL CONTACT. STORE AT ROOM TEMPERATURE, KEEP DRY. KEEP LID ON TIGHT TO AVOID CONTAMINATION.

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PHONE: (212) 271-8900 FAX: (212) 271-5616
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST RESPIRATOR.

VENTILATION: LOCAL EXHAUST TO MINIMIZE EXPOSURE.

PROTECTIVE GLOVES: WEAR RUBBER OR NEOPRENE GLOVES.

EYE PROTECTION: WEAR GOGGLES, WITH SIDE SHIELD IF NECESSARY.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:

SOLUBILITY IN WATER: 170 GAL

BOILING POINT: NOT APPLICABLE

VAPOR PRESSURE
(mmHg at 20°C): NO DATA

VAPOR DENSITY (AIR=1): NO DATA

PH: APPROX. 5.5

SPECIFIC GRAVITY: ABOUT 1

% VOLATILE BY VOLUME: NEGLIGIBLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBLE MATERIALS: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE OXIDES OF CARBON AND NITROGEN.

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SECTION 11: TOXICOLOGICAL INFORMATION (HEALTH HAZARD EFFECTS DATA)

ANIMAL TOXICITY: NO EVALUATION FOR THIS PRODUCT. EVALUATION BASED ON COMPONENT EXTRACT
• **ORAL:** N/E
• **EYE EFFECTS:** MILD IRRITANT - RABBIT
• **SKIN EFFECTS:** N/E

HUMAN EFFECTS: TEMPORARY IRRITANT TO SKIN, NASAL PASSAGE AND BRONCHIA, EYE IRRITANT, BUT NOT CAUSING CORNEAL DAMAGE. AS A STANDARD PRECAUTION WITH ALL DYES AND CHEMICALS, AVOID UNNECESSARY PERSONAL CONTACT.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 13: DISPOSAL CONSIDERATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 14: TRANSPORTATION INFORMATION (NON-MANDATORY)

NOT DOT REGULATED

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

NO RESTRICTION OR REGULATION IS KNOWN

SECTION 16: OTHER INFORMATION

PREPARED BY: HERB SCHIFFRIN | PRODUCT SAFETY DIRECTOR | W. D. LOCKWOOD & CO., INC.

W. D. LOCKWOOD®

49 WALKER ST., 1ST FLOOR NEW YORK, NY 10013
PHONE: 855-293-6613 FAX: 212-275-9416
WWW.WDLOCKWOOD.COM

SAFETY DATA SHEETS (SDS)

MANUFACTURER: W.D. LOCKWOOD & CO., INC.
ADDRESS: 49 WALKER ST
NEW YORK, NY 10013
TELEPHONE: (212) 868-4046 / (212) 225-2878

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: 99 Seal Brown Walnut
SYNONYM: WOOD STAIN POWDER
MANUFACTURED BY: W.D. LOCKWOOD & CO., INC.
49 WALKER ST
NEW YORK, NY 10013
PHONE: (212) 868-4046
EMERGENCY: (917) 855-0614
sales@wdlockwood.com

SECTION 2: HAZARDS IDENTIFICATION

COMPONENTS: NONE AS PER 29CFR PART 1010.1200

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COLOR INDEX NAME: NONE - MIXTURE ACID DYE STUFFS
NOTE: INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY AND NON- HAZARDOUS.

CHEMICAL FAMILY: ACID DYE STUFFS
CHEMICAL FORMULA: PROPRIETARY
T.S.C.A. STATUS: INGREDIENTS LISTED
RTECS NO.: N/A

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SECTION 4: EMERGENCY FIRST AID MEASURES

INHALATION: IF INHALED, MOVE TO FRESH AIR. IF DIFFICULTY IN BREATHING, ADMINISTER OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, GIVE SEVERAL GLASSES OF MILK OR WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

EYE CONTACT: FLUSH EYES WITH FLOWING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN.

SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: CO 2, DRY CHEMICAL OR WATER

SPECIAL PROCEDURES FOR FIGHTING FIRE: WEAR SCBA

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WHERE EXPOSURE IS NOT KNOWN, WEAR A NIOSH APPROVED DUST RESPIRATOR. SWEEP OR SHOVEL SPILLS INTO A WASTE DISPOSAL CONTAINER. USE AN ABSORBANT TO PREVENT DUSTING. WASH DOWN THE AREA WITH WATER.

WASTE DISPOSAL: DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL GOVERNMENTAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH DUE CARE AND AVOID PERSONAL CONTACT. STORE AT ROOM TEMPERATURE. KEEP DRY. KEEP LID ON TIGHT TO AVOID CONTAMINATION.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST RESPIRATOR.

VENTILATION: LOCAL EXHAUST TO MINIMIZE EXPOSURE.

PROTECTIVE GLOVES: WEAR RUBBER OR NEOPRENE GLOVES.

EYE PROTECTION: WEAR GOGGLES, WITH SIDE SHIELD IF NECESSARY.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: DARK RED POWDER, NO ODOR

SOLUBILITY IN WATER: 170 G/L

BOILING POINT: NOT APPLICABLE

VAPOR PRESSURE
(mmHg at 20°C) NO DATA

VAPOR DENSITY (AIR=1): NO DATA

PH: APPROX. 6.5

SPECIFIC GRAVITY: ABOUT 1

% VOLATILE BY VOLUME: NEGLIGIBLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBLE MATERIALS: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE OXIDES OF CARBON AND NITROGEN.

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SECTION 11: TOXICOLOGICAL INFORMATION (HEALTH HAZARD EFFECTS DATA)

ANIMAL TOXICITY: NO EVALUATION FOR THIS PRODUCT. EVALUATION BASED ON COMPONENT EXTRACT
- ORAL: N/E
- EYE EFFECTS: MILD IRRITANT - RABBIT
- SKIN EFFECTS: N/E

HUMAN EFFECTS: TEMPORARY IRRITANT TO SKIN, NASAL PASSAGE AND BRONCHIA. EYE IRRITANT,
BUT NOT CAUSING CORNEAL DAMAGE. AS A STANDARD PRECAUTION WITH
ALL DYES AND CHEMICALS, AVOID UNNECESSARY PERSONAL CONTACT.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 13: DISPOSAL CONSIDERATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 14: TRANSPORTATION INFORMATION (NON-MANDATORY)

NOT DOT REGULATED

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

NO RESTRICTION OR REGULATION IS KNOWN

SECTION 16: OTHER INFORMATION

PREPARED BY: HERB SCHIFFRIN | PRODUCT SAFETY DIRECTOR | W.D. LOCKWOOD & CO., INC.

W. D. LOCKWOOD®

49 WALKER ST. 1ST FLOOR W. D. LOCKWOOD
PHONE: (212) 274-9013 FAX: (212) 274-9016
WWW.WDLOCKWOOD.COM

SAFETY DATA SHEETS (SDS)

MANUFACTURER: W.D. LOCKWOOD & CO., INC.

ADDRESS: 49 WALKER ST
NEW YORK, NY 10013

TELEPHONE: (212) 966-4046 / (212) 226-2878

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: 327 Ebony Black

SYNONYM: WOOD STAIN POWDER

MANUFACTURED BY: W.D. LOCKWOOD & CO., INC.
49 WALKER ST
NEW YORK, NY 10013
PHONE: (212) 966-4046
EMERGENCY: (212) 655-0614
sales@wdlockwood.com

SECTION 2: HAZARDS IDENTIFICATION

COMPONENTS: NONE AS PER 29CFR PART 1910.1200

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COLOR INDEX NAME: NONE - MIXTURE ACID DYESTUFFS
NOTE - INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY AND NON- HAZARDOUS.

CHEMICAL FAMILY: ACID DYESTUFFS

CHEMICAL FORMULA: PROPRIETARY

T.S.C.A. STATUS: INGREDIENTS LISTED

RTECS NO.: N/A

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SECTION 4: EMERGENCY FIRST AID MEASURES

INHALATION: IF INHALED, MOVE TO FRESH AIR. IF DIFFICULTY IN BREATHING, ADMINISTER OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, GIVE SEVERAL GLASSES OF MILK OR WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

EYE CONTACT: FLUSH EYES WITH FLOWING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN.

SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: CO 2, DRY CHEMICAL OR WATER

SPECIAL PROCEDURES FOR FIGHTING FIRE: WEAR SCBA

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WHERE EXPOSURE IS NOT KNOWN, WEAR A NIOSH APPROVED DUST RESPIRATOR. SWEEP OR SHOVEL SPILLS INTO A WASTE DISPOSAL CONTAINER. USE AN ABSORBANT TO PREVENT DUSTING. WASH DOWN THE AREA WITH WATER.

WASTE DISPOSAL: DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL GOVERNMENTAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH DUE CARE AND AVOID PERSONAL CONTACT. STORE AT ROOM TEMPERATURE. KEEP DRY. KEEP LID ON TIGHT TO AVOID CONTAMINATION.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST RESPIRATOR.

VENTILATION: LOCAL EXHAUST TO MINIMIZE EXPOSURE.

PROTECTIVE GLOVES: WEAR RUBBER OR NEOPRENE GLOVES.

EYE PROTECTION: WEAR GOGGLES, WITH SIDE SHIELD IF NECESSARY.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: BLACK POWDER, NO ODOR

SOLUBILITY IN WATER: 170 GL

BOILING POINT: NOT APPLICABLE

VAPOR PRESSURE
(mmHg @ 20°C)

NO DATA

VAPOR DENSITY (AIR=1): NO DATA

PH: APPROX. 8.5

SPECIFIC GRAVITY: ABOUT 1

% VOLATILE BY VOLUME: NEGLIGIBLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBLE MATERIALS: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE OXIDES OF CARBON AND NITROGEN.

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SECTION 11: TOXICOLOGICAL INFORMATION (HEALTH HAZARD EFFECTS DATA)

ANIMAL TOXICITY: NO EVALUATION FOR THIS PRODUCT. EVALUATION BASED ON COMPONENT EXTRACT
- **ORAL:** N/E
- **EYE EFFECTS:** MILD IRRITANT - RABBIT
- **SKIN EFFECTS:** N/E

HUMAN EFFECTS: TEMPORARY IRRITANT TO SKIN, NASAL PASSAGE AND BRONCHIA. EYE IRRITANT,
BUT NOT CAUSING CORNEAL DAMAGE. AS A STANDARD PRECAUTION WITH
ALL DYES AND CHEMICALS, AVOID UNNECESSARY PERSONAL CONTACT.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 13: DISPOSAL CONSIDERATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 14: TRANSPORTATION INFORMATION (NON-MANDATORY)

NOT DOT REGULATED

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

NO RESTRICTION OR REGULATION IS KNOWN

SECTION 16: OTHER INFORMATION

PREPARED BY: HERB SCHIFFRIN | PRODUCT SAFETY DIRECTOR | W. D. LOCKWOOD & CO., INC.

W. D. LOCKWOOD®

49 WALKER ST., 1ST FLOOR NYC, NY 10013
PHONE: 855-855-8048 FAX: 212-279-9910
WWW.WDLOCKWOOD.COM

SAFETY DATA SHEETS (SDS)

MANUFACTURER: W.D. LOCKWOOD & CO., INC.
ADDRESS: 49 WALKER ST
NEW YORK, NY 10013
TELEPHONE: (212) 966-4048 / (212) 228-2878

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: **8 Standard Brown Walnut**
SYNONYM: WOOD STAIN POWDER
MANUFACTURED BY: W.D. LOCKWOOD & CO., INC.
49 WALKER ST
NEW YORK, NY 10013
PHONE: (212) 855-8048
EMERGENCY: (917) 855-0814
sales@wdlockwood.com

SECTION 2: HAZARDS IDENTIFICATION

COMPONENTS: NONE AS PER 29CFR PART 1610.1200

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

COLOR INDEX NAME: NONE - MIXTURE ACID DYESTUFFS
NOTE: INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY AND NON-HAZARDOUS.

CHEMICAL FAMILY: ACID DYESTUFFS
CHEMICAL FORMULA: PROPRIETARY
T.&C.A. STATUS: INGREDIENTS LISTED
RTECS NO.: N/A

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19 WALKER ST., 1ST FLOOR | NYC, NY 10011
PHONE: 866 293 8913 | FAX: 212 274 9674
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SECTION 4: EMERGENCY FIRST AID MEASURES

INHALATION: IF INHALED, MOVE TO FRESH AIR. IF DIFFICULTY IN BREATHING, ADMINISTER OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, GIVE SEVERAL GLASSES OF MILK OR WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

EYE CONTACT: FLUSH EYES WITH FLOWING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN.

SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: CO 2, DRY CHEMICAL OR WATER

SPECIAL PROCEDURES FOR FIGHTING FIRE: WEAR SCBA

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WHERE EXPOSURE IS NOT KNOWN, WEAR A NIOSH APPROVED DUST RESPIRATOR. SWEEP OR SHOVEL SPILLS INTO A WASTE DISPOSAL CONTAINER. USE AN ABSORBANT TO PREVENT DUSTING. WASH DOWN THE AREA WITH WATER.

WASTE DISPOSAL: DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL GOVERNMENTAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH DUE CARE AND AVOID PERSONAL CONTACT. STORE AT ROOM TEMPERATURE. KEEP DRY. KEEP LID ON TIGHT TO AVOID CONTAMINATION.

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PHONE: 800 293 8153 FAX: 212 274 0654
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST RESPIRATOR.

VENTILATION: LOCAL EXHAUST TO MINIMIZE EXPOSURE.

PROTECTIVE GLOVES: WEAR RUBBER OR NEOPRENE GLOVES.

EYE PROTECTION: WEAR GOGGLES, WITH SIDE SHIELD IF NECESSARY.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: BROWN POWDER, NO ODOR

SOLUBILITY IN WATER: 170 G/L

BOILING POINT: NOT APPLICABLE

VAPOR PRESSURE
(mmHg at 20°C) NO DATA

VAPOR DENSITY (AIR=1): NO DATA

PH: APPROX 8.5

SPECIFIC GRAVITY: ABOUT 1

% VOLATILE BY VOLUME: NEGLIGIBLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBLE MATERIALS: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE OXIDES OF CARBON AND NITROGEN.

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SECTION 11: TOXICOLOGICAL INFORMATION (HEALTH HAZARD EFFECTS DATA)

ANIMAL TOXICITY: NO EVALUATION FOR THIS PRODUCT. EVALUATION BASED ON COMPONENT EXTRACT
- **ORAL:** N/E
- **EYE EFFECTS:** MILD IRRITANT - RABBIT
- **SKIN EFFECTS:** N/E

HUMAN EFFECTS: TEMPORARY IRRITANT TO SKIN, NASAL PASSAGE AND BRONCHIA. EYE IRRITANT,
BUT NOT CAUSING CORNEAL DAMAGE. AS A STANDARD PRECAUTION WITH
ALL DYES AND CHEMICALS, AVOID UNNECESSARY PERSONAL CONTACT.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 13: DISPOSAL CONSIDERATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 14: TRANSPORTATION INFORMATION (NON-MANDATORY)

NOT DOT REGULATED

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

NO RESTRICTION OR REGULATION IS KNOWN

SECTION 16: OTHER INFORMATION

PREPARED BY: HERB SCHIFFRIN | PRODUCT SAFETY DIRECTOR | W.D. LOCKWOOD & CO., INC.

W. D. LOCKWOOD®

49 WALKER ST., 15th FLOOR - NY, NY 10013
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SAFETY DATA SHEETS (SDS)

MANUFACTURER: W.D. LOCKWOOD & CO., INC.
ADDRESS: 49 WALKER ST
NEW YORK, NY 10013
TELEPHONE: (212) 866-4046 / (212) 226-2878

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: **872 Tudor Oak**
SYNONYM: WOOD STAIN POWDER
MANUFACTURED BY: W.D. LOCKWOOD & CO., INC.
49 WALKER ST
NEW YORK, NY 10013
PHONE: (212) 866-4046
EMERGENCY: (817) 655-0614
sales@wdlockwood.com

SECTION 2: HAZARDS IDENTIFICATION

COMPONENTS: NONE AS PER 29CFR PART 1910.1200

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COLOR INDEX NAME: NONE - MIXTURE ACID DYESTUFFS
NOTE: INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY AND NON- HAZARDOUS.

CHEMICAL FAMILY: ACID DYESTUFFS
CHEMICAL FORMULA: PROPRIETARY
T.S.C.A. STATUS: INGREDIENTS LISTED
RTCS NO.: N/A

W. D. LOCKWOOD®

49 WAIXLE ST., 1ST FLOOR NYC, NY 10013
PHONE: 212.293.8711 FAX: 212.274.3619
WWW.WDLOCKWOOD.COM

SECTION 4: EMERGENCY FIRST AID MEASURES

INHALATION: IF INHALED, MOVE TO FRESH AIR. IF DIFFICULTY IN BREATHING, ADMINISTER OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, GIVE SEVERAL GLASSES OF MILK OR WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

EYE CONTACT: FLUSH EYES WITH FLOWING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN.

SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: CO 2, DRY CHEMICAL OR WATER

SPECIAL PROCEDURES FOR FIGHTING FIRE: WEAR SCBA

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WHERE EXPOSURE IS NOT KNOWN, WEAR A NIOSH APPROVED DUST RESPIRATOR. SWEEP OR SHOVEL SPILLS INTO A WASTE DISPOSAL CONTAINER. USE AN ABSORBANT TO PREVENT DUSTING. WASH DOWN THE AREA WITH WATER.

WASTE DISPOSAL: DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL GOVERNMENTAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH DUE CARE AND AVOID PERSONAL CONTACT. STORE AT ROOM TEMPERATURE. KEEP DRY. KEEP LID ON TIGHT TO AVOID CONTAMINATION.

W. O. LOCKWOOD®

40 WALKER ST., 1ST FLOOR NYC, NY 10013
PHONE: 212.274.5013 FAX: 212.274.5019
WWW.WOLOCK.COM

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST RESPIRATOR.

VENTILATION: LOCAL EXHAUST TO MINIMIZE EXPOSURE.

PROTECTIVE GLOVES: WEAR RUBBER OR NEDPRENE GLOVES.

EYE PROTECTION: WEAR GOGGLES WITH SIDE SHIELD IF NECESSARY.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: DARK RED POWDER, NO ODOR

SOLUBILITY IN WATER: 170 G/L

BOILING POINT: NOT APPLICABLE

VAPOR PRESSURE
(mmHg at 20°C): NO DATA

VAPOR DENSITY (AIR=1): NO DATA

PH: APPROX. 6.5

SPECIFIC GRAVITY: ABOUT 1

% VOLATILE BY VOLUME: NEGLIGIBLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBLE MATERIALS: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE OXIDES OF CARBON AND NITROGEN.

W. D. LOCKWOOD®

49 WALKER ST., 1ST FLOOR NEW YORK, NY 10013
PHONE 866.293.9913 FAX 212.274.6010
WWW.WDLOCKWOOD.COM

SECTION 11: TOXICOLOGICAL INFORMATION (HEALTH HAZARD EFFECTS DATA)

ANIMAL TOXICITY: NO EVALUATION FOR THIS PRODUCT. EVALUATION BASED ON COMPONENT EXTRACT
- **ORAL:** NONE
- **EYE EFFECTS:** MILD IRRITANT - RABBIT
- **SKIN EFFECTS:** NONE

HUMAN EFFECTS: TEMPORARY IRRITANT TO SKIN, NASAL PASSAGE AND BRONCHIAL. EYE IRRITANT, BUT NOT CAUSING CORNEAL DAMAGE. AS A STANDARD PRECAUTION WITH ALL DYES AND CHEMICALS, AVOID UNNECESSARY PERSONAL CONTACT.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 13: DISPOSAL CONSIDERATION (NON-MANDATORY)

NO DATA FOR THIS PRODUCT

SECTION 14: TRANSPORTATION INFORMATION (NON-MANDATORY)

NOT DOT REGULATED

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

NO RESTRICTION OR REGULATION IS KNOWN

SECTION 16: OTHER INFORMATION

PREPARED BY: HERB SCHEFFRIN | PRODUCT SAFETY DIRECTOR | W. D. LOCKWOOD & CO., INC.

XW27008 HEUCOTINT RAW UMBER L**Safety Data Sheet**

According to Federal Register (Vol. 37, No. 66) Monday, March 26, 2012 / Rules and Regulations

Issue date: 01/29/2012 Version: 1.0

SECTION 1: Identification**1.1. Identification**

Product form : Mixture
 Product name : XW27008 HEUCOTINT RAW UMBER L
 CAS-No. : Proprietary
 Product code : Xw27008

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Dispersion

1.3. Supplier

Heubach Ltd.
 69 Newbold Road
 Fairless Hills, PA 19030 - USA
 T (215) 738-0712 - F (215) 738-1999
US_regulatory_affairs@heubach.com

1.4. Emergency telephone number

Emergency number : CHEMTREC 1(800) 424-9300

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Carcinogen Category 1A - H350 - May cause cancer

Full text of H statements : see section 15

2.2. GHS Label elements, including precautionary statements**GHS US labeling****Hazard pictograms (GHS US)****Signal word (GHS US)**

Danger

Hazard statements (GHS US)

- H350 - May cause cancer

Precautionary statements (GHS US)

- P201 - Obtain special instructions before use.
 - P202 - Do not handle unless all safety precautions have been read and understood.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P308+P313 - If exposed or concerned: Get medical advice/attention.
 - P405 - Store locked up.
 - P501 - Dispose of contents/container in a safe manner in accordance with local, regional and national regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown route toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Carbon Black	CAS No.: 1333-86-4	40.16%	Carc. 2, H351
Quartz	CAS No.: 14808-60-7	0.7%	Carc. 1A, H350

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In accordance with Federal Register Vol. 47, No. 52 / Monday, March 29, 2012 / Rules and Regulations

Full text of hazard classes and H-statements: See section 1b

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep calm forable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash skin with plenty of water. Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, burning or redness persists.
- First-aid measures after ingestion : Call a doctor or poison control physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Possible Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/effects after inhalation : May cause cancer by inhalation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Foam, Carbon dioxide, Sand
- Unsuitable extinguishing media : Do not use a heavy water stream

5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to Section 8 "Exposure controls/personal protection". E.g. p cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Accidental release to the environment: Notify authorities if product enters sewers or public waters. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of material's or spill residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. See heading 8. Exposure controls and personal protection.

XW27008 HEUCOTINT RAW UMBER L

Safety Data Sheet

According to Federal Register (Vol. 77, No. 58) Monday, March 26, 2012 Federal and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

• Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures

• Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

• Store locked up. Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Keep only in the original container in a cool, well-ventilated area.

Incompatible products

• Strong bases. Strong acids.

Incompatible materials

• Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Quartz (14808-80-7)

USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (mg/m³) : 0.025 mg/m³ (respirable particulate matter)

ACGIH chemical category : Suspected Human Carcinogen

USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA (mg/m³) : 0.5 mg/m³

USA - IDLH - Occupational Exposure Limits

US IDLH (mg/m³) : 50 mg/m³ (respirable dust)

USA - NIOSH - Occupational Exposure Limits

NIOSH REL (TWA) (mg/m³) : 0.05 mg/m³ (respirable dust)

Carbon black (1333-88-4)

USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (mg/m³) : 3 mg/m³ (inhalable particulate matter)

ACGIH chemical category : Confirmed Animal Carcinogen with Unknown Relevance to Humans

USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) (mg/m³) : 3.5 mg/m³

USA - IDLH - Occupational Exposure Limits

US IDLH (mg/m³) : 1750 mg/m³

USA - NIOSH - Occupational Exposure Limits

NIOSH REL (TWA) (mg/m³) : 0.5 mg/m³

0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)

8.2. Appropriate engineering controls

Appropriate engineering controls

• Ensure good ventilation of the work station.

Environmental exposure controls

• Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

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according to Federal Register, Vol. 77, No. 30 / Mexico, March 20, 2012 / Rules and Regulations

Protective gloves: Wear protective gloves.

Eye protection:

Safety glasses, Chemical goggles or safety goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection. Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Brown liquid.
Color	: Brown
Odor	: Characteristic
Color threshold	: No data available
pH	: No data available
pH solution	: 7.5 - 9
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable. Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity/density	: 1.48 g/ml
Solubility	: Water Dispersion
Partition coefficient n-octanol/water (Log Pow)	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity kinematic	: No data available
Viscosity dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Percent Solids	: 84.5%
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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

XW27008 HEUCOTINT RAW UMBER L

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According to Federal Register, Vol. 77, No. 58, Monday, March 26, 2012, Rules and Regulations

10.2. Chemical stability

Stable under normal conditions. Stable at recommended storage temperature.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Carbon black (1333-86-4)

LD50 (oral rat) : > 15400 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Gen. cat. mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Quartz (14808-60-7)

IARC group : 1 - Carcinogenic to humans

National Toxicology Program (NTP) Status : Known Human Carcinogen

In OSHA Hazard Communication Carcinogen List : Yes

Carbon black (1333-86-4)

IARC group : 2B - Possibly carcinogenic to humans

In OSHA Hazard Communication Carcinogen List : Yes

Reproductive toxicity : Not classified

STOT - single exposure : Not classified

STOT - repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : May cause cancer by inhalation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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According to Federal Register / Vol. 77, No. 53 / Tuesday, March 26, 2012 / Rules and Regulations

12.2. Persistence and degradability

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Persistence and degradability: Not established

Quartz (14808-60-7)

Persistence and degradability: Not established

Carbon black (1333-86-4)

Persistence and degradability: Not established

12.3. Bioaccumulative potential

XW27008 HEUCOTINT RAW UMBER L (Proprietary)

Bioaccumulative potential: Not established

Quartz (14808-60-7)

Bioaccumulative potential: Not established

Carbon black (1333-86-4)

Bioaccumulative potential: Not established

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information: Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods: Dispose of contents/container in accordance with licensee collector's sorting instructions.

Product/Package disposal recommendations: Dispose of in a safe manner in accordance with local, state, and national regulations.

Ecology - waste materials: Avoid release to the environment

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

XW27008 HEUCOTINT RAW UMBER L (Proprietary)

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory

15.2. International regulations

CANADA

Quartz (14808-60-7)

Listed on the Canadian List (Domestic Substances List)

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Carbon black (1333-86-4)
Listed on the Canadian DSL (Domestic Substances List)
EU-Regulations
Quartz (14808-60-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Carbon black (1333-86-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on ELNCS (European List of Notified Chemical Substances)
National regulations
XW27008 HEUCOTINT RAW UMBER L (Proprietary)
Component listed on the Canadian DSL (Domestic Substances List) inventory.
Component listed on the United States TSCA (Toxic Substances Control Act) inventory.
Quartz (14808-60-7)
Listed on IARC (International Agency for Research on Cancer)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on ECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECLKECI (Korean Existing Chemicals Inventory)
Listed on NZIC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on INSC (Mexican National Inventory of Chemical Substances)
Listed on OICR (Turkish Inventory and Control of Chemicals)
Listed on the TCS (Taiwan Chemical Substance Inventory)
Carbon black (1333-86-4)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on ECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECLKECI (Korean Existing Chemicals Inventory)
Listed on NZIC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSC (Mexican National Inventory of Chemical Substances)
Listed on OICR (Turkish Inventory and Control of Chemicals)
Listed on the TCS (Taiwan Chemical Substance Inventory)
U.S. US State Regulations

WARNING: This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.PCAWarnings.ca.gov.

Component	State or local regulations
Quartz (14808-60-7)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Carbon black (1333-86-4)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 28, 2012 / Hazardous Regulations

Other Information	Name
Full text of H-phrases:	
H350	May cause cancer
H351	Suspected of causing cancer

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Hazard Rating

Health

- : 2 Moderate Hazard - Temporary or minor injury may occur
- * - Chronic (long-term) health effects may result from repeated overexposure

Flammability

- : 3 Minimal Hazard - Materials that will not burn

Physical Hazard

- : 3 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives

Personal protection

- : H
- H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

GHS (GHS Hazchem 2012)

While Heucochem Ltd. believes the data set forth here is accurate as of the date Heucochem Ltd. makes no warranty, expressed or implied, and we will not be liable for any injury, loss or damage arising out of the use of the information contained herein.

SECTION 1: Identification**1.1. Identification**

Product form	: Ink/Ink
Product name	: KW27005 HEUCOTINT KW27005 Lampblack B
Product code	: KW27005

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Pigment Black T D sponson
Use of the substance/mixture	: Dispersion

1.3. Supplier

Heubach Ltd.
88 Herbold Road
Fairless Hills, PA, United States of America, 19031
USA
T (215) 738-0712 - F (215) 738-1669
US.CustomerSupport@heubach.com

1.4. Emergency telephone number

Emergency number : CHEMTREC 1(800) 424-9300

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture**

GHS US classification

Serious eye damage/eye irritation Category 1	H316	Causes serious eye damage
Carcinogenicity Category 2	H351	Suspected of causing cancer

Full text of H statements: see section 10

2.2. GHS label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

Hazard statements (GHS US)

Precautionary statements (GHS US)

- Danger
- H316 - Causes serious eye damage
- H351 - Suspected of causing cancer
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 - If exposed or concerned: Get medical advice/attention.
- P310 - Immediately call a poison center or doctor.
- P405 - Store locked up.
- P501 - Dispose of contents/container in a safe manner in accordance with local, regional and national regulations

KW27005 HEUCOTINT KW27005 Lampblack B

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according to Federal Register / Vol. 37, No. 50 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS/US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Carbon black	CAS-No.: 1333-86-4	1-10	Carc. 2, H351
Alcohol, C ₂ -1, ethoxybutyl	CAS-No.: 68439-45-3	0-7	Acute Tox. 4 (Oral), H302
Poly(oxy-1,2-ethanediyl) adipate-(2-propylheptyl)-omega-hydroxy	CAS-No.: 162875-66-0	0-6	Not classified

Full text of hazard classes and H-statements - see section 15

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam, Dry powder, Carbon dioxide, Water spray, Sand
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

KW27005 HEUCOTINT KW27005 Lampblack B

Safety Data Sheet

Issued in accordance with Federal Register Vol. 77, No. 55 / Monday, March 26, 2012 / Rules and Regulations

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters, notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

- Methods for cleaning up : Soak up spill with inert solids, such as clay or absorbent such as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well-ventilated area. Keep only in the original container in a cool, well-ventilated place away from:
- Incompatible products : Strong bases, Strong acids.
- Incompatible materials : Sources of friction, Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

KW27005 HEUCOTINT KW27005 Lampblack B

No additional information available

Poly(oxy-1,2-ethanediy), alpha-(2-propylheptyl)-omega-hydroxy- (160875-65-1)

No additional information available

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Safety Data Sheet

according to Federal Register / vol. 37, No. 50 / Monday, March 26, 2007 / Rules and Regulations

Kaolin (1332-58-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) (1)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Carbon black (1333-86-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	3 mg/m ³ (Inhalable particulate matter)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) (1)	3.5 mg/m ³
USA - IDLH - Occupational Exposure Limits	
IDLH	1750 mg/m ³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polyyclic aromatic hydrocarbons)
Alcohols, C9-11; ethoxylated (68439-46-3)	
No additional information available	
8.2. Appropriate engineering controls	
No additional information available	
8.3. Individual protection measures (Personal protective equipment)	
Personal protective equipment: Avoid all unnecessary exposure	
Hand protection: Wear protective gloves	
Eye protection: Chemical goggles or safety glasses	
Respiratory protection: Wear appropriate mask	

Other information:

Do not eat, drink or smoke during use

KW27005 HEUCOTINT KW27005 Lampblack B

Safety Data Sheet

according to Federal Register / vol. 77, No. 50 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Black solid
Color	: Black
Odor	: Amine-like
Odor threshold	: No data available
pH	: No data available
pH solution	: 8 - 10
Melting point	: No data available
Freezing point	: No data available
Softening point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: No data available
Relative vapor density at 25 °C	: No data available
Relative density	: No data available
Density	: 1.4 g/ml
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at recommended storage temperature. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume, Carbon monoxide, Carbon dioxide

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SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Kaolin (1332-58-7)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Carbon black (1333-86-4)

LD50 oral rat	> 15400 mg/kg
---------------	---------------

Alcohols, C9-11, ethoxylated (68439-46-3)

LD50 oral rat	: 1400 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer

Carbon black (1333-86-4)

IARC group	: 2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen List	: Yes
Reproductive toxicity	: Not classified
STC1-single exposure	: Not classified
STC1-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematics	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use

SECTION 12: Ecological Information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

KW27005 HEUCOTINT KW27005 Lampblack B

Persistence and degradability	: Not established.
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Kaolin (1332-58-7)

Persistence and degradability	: Not established.
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Carbon black (1333-86-4)

Persistence and degradability	: Not established.
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Alcohols, C9-11, ethoxylated (68439-46-3)

Persistence and degradability : Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

Kaolin (1332-59-7)

Bioaccumulative potential : Not established.

Carbon black (1333-86-4)

Bioaccumulative potential : Not established.

Alcohols, C9-11, ethoxylated (68439-46-3)

Bioaccumulative potential : Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local, state, and national regulations. Dispose of contents/container in a safe manner in accordance with local, regional and national regulations. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

	DOT	TDG	IMDG	IATA
14.1. UN number	Not regulated for transport			
14.2. Proper Shipping Name	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	Not applicable	Not applicable	Not applicable	Not applicable

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 55 / Monday, March 26, 2012 / Rules and Regulations

DOT	TDG	IMDG	IATA
-----	-----	------	------

No supplementary information available

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed as Active or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1980 and 40 CFR Part 372

15.2. International regulations

No additional information available

15.3. US State regulations

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U.S. - California - Proposition 65 - Other information

This product is quite likely to contain trace metals in parts per million (PPM) which are listed on Prop 65 however they will not exceed the OEHHA limits.

State or local regulations

CCNEG Compliant

WARNING

This product can expose you to Ethylene oxide and Carbon Black, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Component	State or local regulations
Kashin(1312-58-7)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Carbon black(1333-86-4)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Spec. Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List

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according to Federal Register / Vol. 77, No. 58 / Monday, March 29, 2012 / Rules and Regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 29, 2012 / Rules and Regulations

Revision date : 11/02/2021

Other information : None.

Full text of H-phrases

H302	Harmful if swallowed
H310	Causes serious eye damage
H361	Suspected of causing cancer

Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 1 Chronic (long-term) health effects may result from repeated or continuous exposure

Physical Hazards : 3 Minimal Hazard - Materials that will not burn

Personal protection : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : H - Splash goggles, Gloves, Synthetic nitrile, Vapor respirator

Indication of changes:

Section	Changed Item	Change	Comments
3	Composition, information on ingredients	Modified	

Safety Data Sheet (SDS) USA

Wako Pure Chemical Ltd. believes the data set forth herein are accurate as of the date hereof. Wako Pure Chemical Ltd. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your convenience. Wako Pure Chemical Ltd. does not warrant or verify the data.



Fire Retardant Coatings of Texas®, LLC

1150 Blue Mound Rd West #403
Haslet, Texas 76052 Office (817) 710-5233
Sales@fretexas.com • www.fretexas.com

Printing date 03/18/2016

OSHA Hazard Communication Standard 29 CFR 1910.1200.
Prepared to GHS Rev04.

Reviewed on April 2019

Safety Data Sheet (SDS)

1 Product and Company Identification

- **Product Identifier**
- **Trade name:** FX LumberGuard®
- **Article number:** FX LumberGuard®
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description**
Fire retardant for interior lumber, plywood, OSB and Joist.
Non-Hazardous Penetrant – Non-Toxic – Environment Safe – Water Based
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Fire Retardant Coatings of Texas®, LLC
1150 Blue Mound Rd West #403
Haslet, TX 76052
Off (817) 710-5233 Fax (817) 439-8385
- **Emergency telephone number:** (817) 710-5233
- **"Fire Retardant Coatings of Texas", "FX Lumber Guard / FX Lumber Guard XT"**
- **& "FRCT" Logo are federally registered trademarks**



2 Hazards Identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements** Precautionary statements
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH: 0 Health = 0
FIRE: 0 Fire = 0
REACTIVITY: 0 Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/Information on ingredients

461-58-5 dicyandiamide	<4%
7732-18-5 water, distilled, conductivity or of similar purity	<85%
7783-28-0 diammonium phosphate	<2%

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.



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Dangerous components:

7664-38-2 Phosphoric Acid 75% Food Grade

57-13-6 Urea Prills

Proprietary

H314

<2.5%

2%

4.5%

4 First aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash effective area with soap and water.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Give large amounts of water. If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See

Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling No special measures required.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific and use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

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• Control parameters

• Components with limit values that require monitoring at the workplace:

7664-38-2 phosphoric acid 75% Food Grade

PEL 1 mg/m³

REL Short-term value: 3 mg/m³ Long-term value: 1 mg/m³

TLV Short-term value: 3 mg/m³ Long-term value: 1 mg/m³

57-13-6 urae

WEEL 10 mg/m³

• **Additional information:** The lists that were valid during the creation were used as basis.

• Exposure controls

• Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

• **Breathing equipment:** Not required.

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

• **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

• Information on basic physical and chemical properties

• General information

Appearance:

Form:

Liquid

Color:

Cloudy

• Odor:

Yes

• Odor threshold:

Slight

• pH-value range:

5.5 – 7 %

• Change in condition

Freezing point/Freezing range :

<40 °F

Boiling point/Boiling range:

>212 °F

• Flash point:

Not applicable.

• Flammability (solid, gaseous):

Not applicable.

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· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density:	SG 1.020%
· Relative density	Not determined
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
Water:	85 %
Solids content:	32 %
· Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product is not subject to classification according to internally approved calculation methods for preparations:

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Trade name:

Prepared to GHS Rev04.

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When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us

- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
- **NTP (National Toxicology Program)**
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
Aquatic toxicity: No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bio accumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment); slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name** None
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Void
- **Packing group**
- **DOT, ADR, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

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Prepared by GHS Rev04

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15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**
7664-38-2 phosphoric acid 75% food grade
- **TSCA (Toxic Substances Control Act):**
461-58-5 dicyandiamide
7664-38-2 phosphoric acid 75% food grade
57-13-6 Urea Prills
7783-28-0 diammonium phosphate
7732-18-5 water, distilled, conductivity or of similar purity
- **Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**
None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Abbreviations and acronyms:**

ADR: Accord Européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation IATA:
International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
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