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: Niagara Woodwork and Design, LLC DBA: Port Townsend Cabinet Company	**For ORCAA use only** File No: 160 County No: 31 Source No: 155 Application No: 25NOC 1717
Mailing Address: 1240 W Sims Way #309, Port Townsend WA 98368	
Physical Address of Project or New Source: 810 Aurora Lp, Port Townsend, Wa 98368	Date Received: Received MAY 22 2025 ORCAA
Billing Address: 1240 W Sims Way #309, Port Townsend WA 98368	

Project or Equipment to be installed/established:

Crossdraft Spray Booth

Commence construction date: 8 / 1 / 25 Is facility currently registered with ORCAA? Yes ☐ No ☒

This project must meet the requirements of the State Environmental Policy Act (SEPA) before ORCAA can issue final approval. Indicate the SEPA compliance option:

- ☐ SEPA was satisfied by _____ (government agency) on ___/___/___ (date) - Include a copy of the SEPA determination
- ☐ SEPA threshold determination by _____ (government agency) is pending - Include a copy of the environmental checklist
- ☒ ORCAA is the only government agency requiring a permit - Include ORCAA Environmental Checklist
- ☐ This project is exempt from SEPA per _____ (WAC citation).

Name of Owner of Business: Steve Horstmann		Agency Use Only
Title: Owner		
Email: Stevenhorstmann@gmail.com	Phone: 360-292-2088	
Authorized Representative for Application (if different than owner): Same		
Title:		
Email:	Phone:	
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: 5-20-25	
IMPORTANT: Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.		

5/17/2025

Niagara Woodwork and Design, LLC

Upcoming DBA: Port Townsend Cabinet Company

810 Aurora Lp

Port Townsend, WA 98368

Project Description:

Niagara Woodwork and Design, LLC, will be relocating to a new facility in the Port Townsend Business Park, and rebranding as the Port Townsend Cabinet Company. The building is nearing completion – we expect to move in on July 1, 2025.

We will be installing spray finishing equipment for the application of wood coating primer, topcoat, and clear coat to the company's custom cabinet doors and related parts.

The equipment installed will be a Global Finishing Solutions open faced cross draft spray booth with vertical (ceiling) exhaust.

The spray coatings used with be of a water-based, solvent-free type. The disposal of unsprayed coatings will be evaporated, with the remaining solids being disposed of into the landfill.

1 or 2 employees will be working in the spray booth on an intermittent basis, averaging about 8 hours per week in total. An average or 3-5 gallons per week of product will be sprayed, with a daily maximum of 3 gallons.

The doors will be milled and assembled using rough lumber and remanufactured plywood. Point of source dust collection will be used during the milling operations (joiner, planer, table saw, and sanding), and filtered and vented internally.

Once prepped for finished, the doors will be stored on horizontal racks and moved into the spray booth. They will then be sprayed with 2-3 coats or water-based clear coat, or 1-2 coats of water-based primer followed by 2-3 coats of water-based tinted topcoat. All overspray will be captured within the spray booth filters. The doors will air dry in between each coating for a minimum of 30 minutes.

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Title: Owner		
Email: Stevenhorstmann@gmail.com	Phone: 360-292-2088	
Authorized Representative for Application (if different than owner): Same		
Title:		
Email:	Phone:	
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:	

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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: Niagara Woodwork and Design, LLC DBA: Port Townsend Cabinet Company	**Contact Person:** Steven Horstmann **Phone Number:** 360-292-2088 **Email:** stevenhorstmann@gmail.com
Operating Schedule: 8 hrs/day, 5 days/wk, 52 wks/yr	**Indicate days when operating:** ■ M ■ T ■ W ■ Thu ■ F ☐ Sat ☐ Sun

Process Information

Flow:	■ Cross front flow ☐ Cross reverse flow	☐ Full downdraft ☐ Semi-downdraft	☐ Side downdraft ☐ Updraft	☐ Combination ☐ Other (explain in attachment)
Exhaust:	☐ Side Wall	☐ Pit/Trench Design	■ Ceiling	☐ Rear Wall ☐ Front/Doors
Intake Type:	☐ Natural		☐ Forced (air make-up unit)	
Enclosure Type:	☐ Fully enclosed ■ Closed top open front (CTOF)	☐ Compact/modular ☐ Curtain/tent/drape ☐ Tunnel	☐ Open table/bench ☐ Other (explain in attachment)	
Width (feet):		**Length (feet):** 12	**Height (feet):** 8	
Manufacturer:	Global Finishing Solutions			
Model Number:	DFOCG-120806-NSB-2L			
Serial Number:	TBD			
Pressure Gauge:	☒ Yes ☐ No	**Filter Plenum:**	☒ Yes ☐ No	
Intended Applicator Usage (see next section):	■ Applicator #1 ☐ Applicator #2	☐ Applicator #3 ☐ Applicator #4	☐ Applicator #5	
Air Pollution Control Methods:	☐ Water Wash ☐ Scrubber ☐ Oxidizer (Form 35)	■ Low VOC coatings ☐ Cyclone (Form 13) ☐ Baghouse (Form 12)	☐ Cartridge unit (Form 12) ☐ Enclosed spray gun cleaner	
Heater/Curing Information (if applicable)				
Heater Placement:	☐ Part of spray booth unit	☐ Separate curing enclosure (Form 11)		
Curing/Heating Type :	☐ Hot air dryer ☐ Ultraviolet	☐ Infrared dryer ☐ Boiler	☐ Other (explain in attachment)	
Fuel/Heat Type :	☐ Natural gas ☐ Propane (LP) Gas	☐ Electric ☐ Diesel	☐ Other (explain in attachment)	
Maximum Heating Rate (MMBtu/hr):				
Maximum Air Flow Rate (acfm):				

RETURN TO ORCAA

Coating Operation Information

Type:	☐ Existing Stationary Source ☐ Temporary Source ■ New Stationary Source
NAICS Code(s):	

Coating Equipment Information

	Applicator #1	Applicator #2	Applicator #3	Applicator #4	Applicator #5
Coating Type:**	☐Brush/Roller ☐Web ■Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating
Manufacturer:	Graco				
Model:	G15				
Quantity:	1				
Technology Type:	☐ HVLP ☐ Electrostatic ■ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)
Automation/ Control:	■Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic
Air Supply Pressure (psi):	18				
Fluid Output Pressure (psi):	30				
Mounting:	■Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator

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

Dry Filter Information

	Pre-Filter	Exhaust Filter
Manufacturer:	N/A	Global Finishing
Model:		Wave Filters
Media Type:		Polyester
Overall Arrest Efficiency (%):		99.9%
Filtered Area (squared feet):		66

Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	☐Yes** ☒No

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

Other Process Information

Abrasive Blasting:	☐Yes (Form 17) ☒No
Welding:	☐Yes (Form 19) ☒No
Metal Cutting:	☐Yes (Form 31) ☒No
Fluidized Bed Coating:	☐Yes ☒No

Cleaning/Etching/Degreasing Information

Methylene Chloride Stripping:	☐Yes** ☒No
Phosphate or Chromate Conversion Coating:	☐Yes** ☒No
Chemical/Acid Rinsing or Bathing:	☐Yes** ☒No

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

Exhaust/Stack/Building Information

Motor Power (hp):	3hp (3phase)	
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	9600 cfm	
Fan Diameter (feet):	24	
Stack Type:	☒Vertical (Ceiling Outlet)	☐Horizontal (Wall Outlet)
Stack Height (feet from ground):	21	
Stack Inside Diameter (inches):	24	
Stack weatherproof damper or exhaust apparatus:	☐None ☐Hexagonal ☐Stack within stack	■Butterfly ☐Inverted cone ☐Other (explain in attachment)
Bldg. Peak Height (feet):	17	
Bldg. Width (feet):	40	
Bldg. Length (feet)	70	

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	42
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):	75

Filing Fee:

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

Material Usage Information

Provide the following information and attach copies of Material Safety Data Sheets (MSDS) used in all coating operations, including but not limited to pre-treatment wash, chemical strippers, paint, primer, topcoat, clearcoat, gelcoat, lacquer, stain, catalyst, activator, hardener, resin, filler, sealer, adhesive, solvent and thinner/reducer and any other materials used which contain volatile organic compounds (VOC). Use additional pages if necessary. For similar materials such as multiple color variations of a stain or paint, enter as single item with a usage rate representing the total gallons of all variations used, and provide the MSDS for the constituent which is most used.

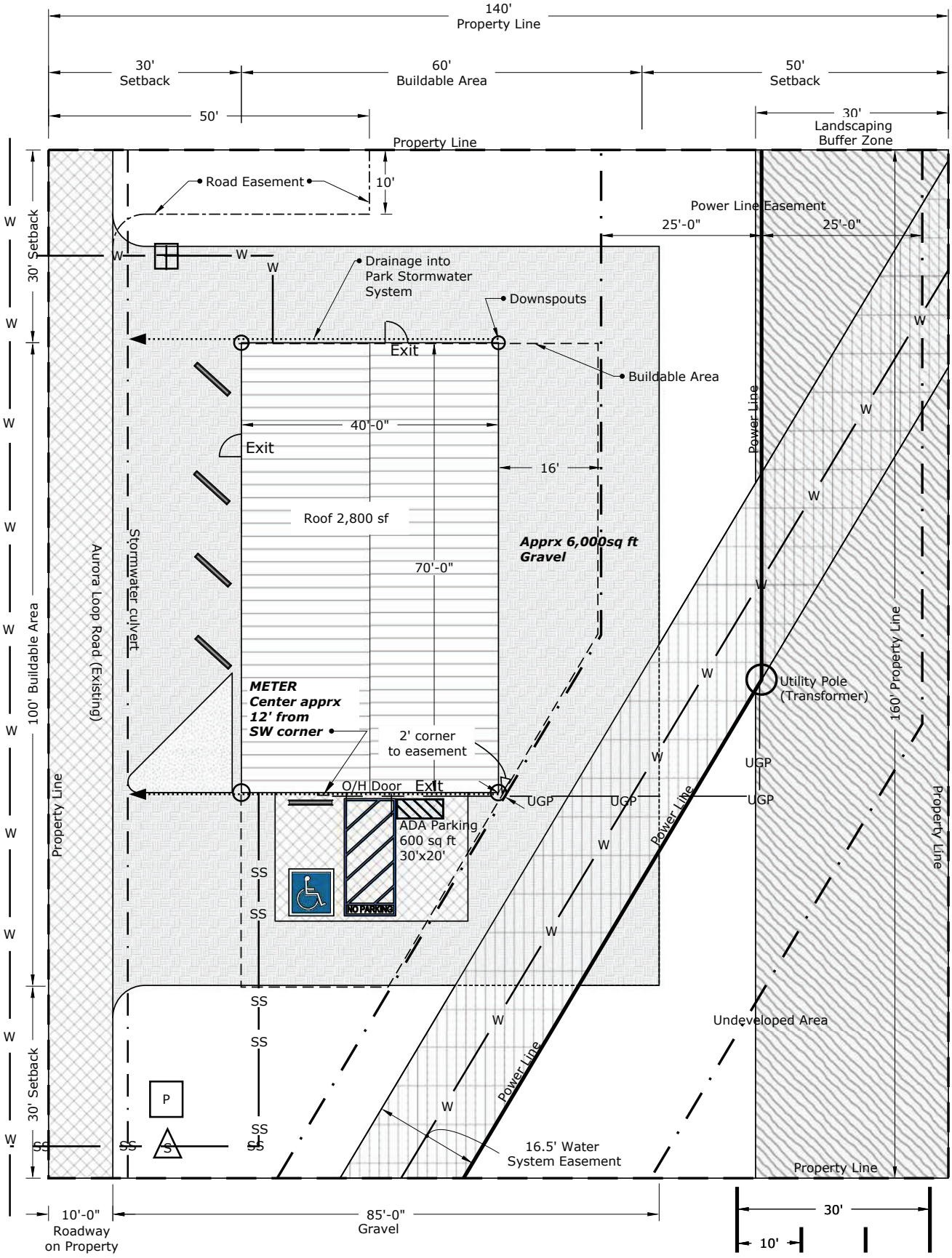
NAME OF MATERIAL (as on SDS/ MSDS):	ESTIMATED ANNUAL USAGE (in gallons):	**Applicator #** (as defined in the "Coating Equipment Information" section):
HSC6036	30	1
HGA14	5	1
HSA6A484	20	1
HKR114	30	1
HBT7A01	30	1

Exhaust to Nearest Property Line with Permanent Residence - 72'

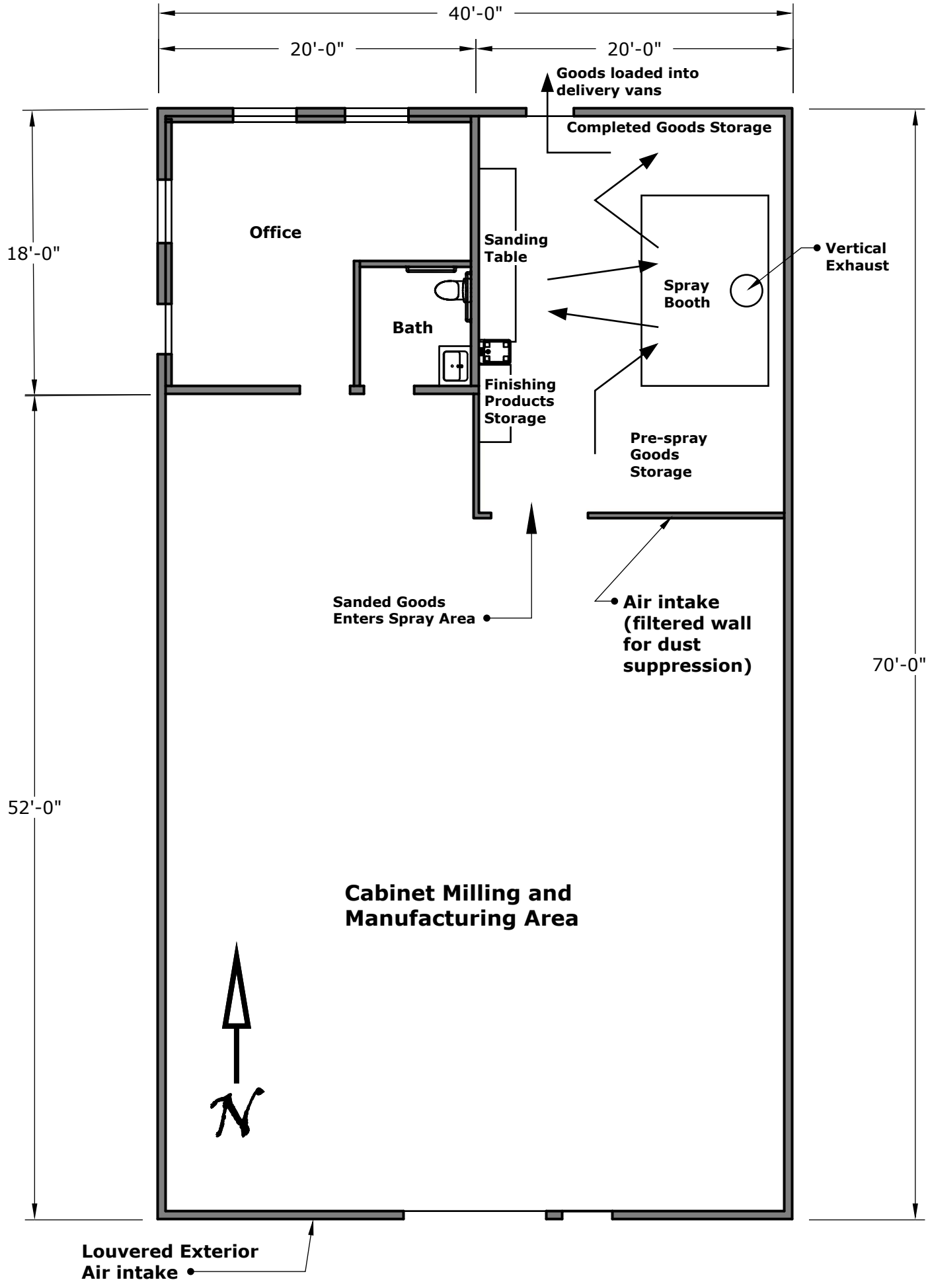
Exhaust to Nearest Property Line - 42'

Apprx Building footprint

Exhaust



Parcel #989800017 Lot 17, Port Townsend Business Park Owner - Steven Horstmann	**COVERAGES** TOTAL LOT SF - 22,400 Roof (sf) - 2,800 Asphalt (sf) - 600 Gravel (sf) - 6,000 **TOTAL IMPERVIOUS SURFACE - 9,400(42%)** Roof (sf) - 2,800 **TOTAL LOT COVERAGE - 2,800 (13%)**	**CUT AND FILL** Clearing & grubbing- 5400 SF x 8" = 133 CY Site cut export – 5400 SF x 10" = 166 CY Site balancing onsite- 5400 SF x 10" = 166 CY Foundation excavation- 100 CY


40'-0"
20'-0"
20'-0"
Goods loaded into delivery vans
Completed Goods Storage
Office
Sanding Table
Vertical Exhaust
Spray Booth
Bath
Finishing Products Storage
Pre-spray Goods Storage
18'-0"
Sanded Goods Enters Spray Area
Air intake (filtered wall for dust suppression)
70'-0"
52'-0"
Cabinet Milling and Manufacturing Area
N
Louvered Exterior Air intake

SEPA[1] Environmental Checklist

Purpose of checklist

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization, or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. **You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown.** You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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 impact.

Instructions for lead agencies

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B, plus the Supplemental Sheet for Nonproject Actions (Part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in "Part B: Environmental Elements" that do not contribute meaningfully to the analysis of the proposal.

[1] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/Checklist-guidance

A.Background

Find help answering background questions[2]

1. **Name of proposed project, if applicable:**

   New Spray Booth

2. **Name of applicant:**

   Niagara Woodwork & Design, LLC DBA: Port Townsend Cabinet Company

3. **Address and phone number of applicant and contact person:**

   Steven Horstmann 360-292-2088, 1240 W Sims Way #309, Port Townsend, WA 98368

4. **Date checklist prepared:**

   5-17-25

5. **Agency requesting checklist:**

   ORCAA

6. **Proposed timing of schedule (including phasing, if applicable):**

   Booth Installation July/August 2025, Operational August/September 2025

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.**

   N/A

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.**

   N/A

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. (Lead agencies may modify this form to include additional specific information on project description.)**

    Installation of a 12'x'8 manual open faced spray booth for finishing cabinet doors and parts within a leased commercial space.

[2] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-A-Background

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.

Port Townsend Business Park, Lot 17

810 Aurora Loop, Port Townsend, WA 98368

B.Environmental Elements

1. Earth

Find help answering earth questions[3]

a. General description of the site:

Light industrial commercial business park lot

Circle or highlight one: Flat, rolling, hilly, steep slopes, mountainous, other:

Flat

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

N/A

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 agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

N/A

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

N/A

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

N/A

f. Could erosion occur because of clearing, construction, or use? If so, generally describe.

N/A

[3] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-earth

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

N/A

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

N/A

2. Air

Find help answering air questions[4]

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Low VOC water-based coatings

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

No odor generated from water based coating

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

Spray booth is equipped with filter banks in the exhaust plenum to control emissions

3. Water

Find help answering water questions[5]

a. Surface:

Find help answering surface water questions[6]

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.

No

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.

N/A

[4] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-Air
[5] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water
[6] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Surface-water

3. **Estimate the 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 that would be affected. Indicate the source of fill material.**

   N/A

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

   N/A

5. **Does the proposal lie within a 100-year floodplain? 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.**

   NO

b. Ground:

Find help answering ground water questions[7]

1. **Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give a general description, purpose, and approximate quantities if known.**

   N/A

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

   N/A

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.**

   N/A

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

   No

[7] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Groundwater

3. **Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.**

N/A

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

N/A

4. Plants

Find help answering plants questions

a. **Check the types of vegetation found on the site:**

☒ **deciduous tree: alder, maple, aspen, other**

☒ **evergreen tree: fir, cedar, pine, other**

☒ **shrubs**

☒ **grass**

☐ **pasture**

☐ **crop or grain**

☐ **orchards, vineyards, or other permanent crops.**

☐ **wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other**

☐ **water plants: water lily, eelgrass, milfoil, other**

☐ **other types of vegetation**

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

None

c. **List threatened and 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.**

N/A

e. **List all noxious weeds and invasive species known to be on or near the site.**

None

5. Animals

Find help answering animal questions[8]

[8] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-5-Animals

a. **List any birds and other animals that have been observed on or near the site or are known to be on or near the site.** None

Examples include:

- **Birds: hawk, heron, eagle, songbirds, other:**
- **Mammals: deer, bear, elk, beaver, other:**
- **Fish: bass, salmon, trout, herring, shellfish, other:**

b. **List any threatened and endangered species known to be on or near the site.**

None

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

No

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

N/A

e. **List any invasive animal species known to be on or near the site.**

N/A

6. Energy and natural resources

Find help answering energy and natural resource questions[9]

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 to power spray booth and interior heat.

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

No

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.**

None

7. Environmental health

Health Find help with answering environmental health questions[10]

[9] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-6-Energy-natural-resou
[10] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-7-Environmental-health

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

No

1. **Describe any known or possible contamination at the site from present or past uses.**

   None

2. **Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.**

   N/A

3. **Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.**

   None

4. **Describe special emergency services that might be required.**

   None

5. **Proposed measures to reduce or control environmental health hazards, if any.**

   N/A

b. Noise

1. **What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

   None

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)?**

   Exhaust fan operation noise, limited to Monday-Friday 8-4pm.

3. **Proposed measures to reduce or control noise impacts, if any:**

   Exhaust fan produces minimal exterior noise (fan is located on the interior of the shop).

8. Land and shoreline use

Find help answeriny g land and shoreline use questions[11]

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

Commercial use.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses because of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No

1. **Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?**

   No

c. Describe any structures on the site.

Single commercial steel building, 40x70

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

No

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

Commercial, light industrial

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

Light industrial Business Park

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 a critical area by the city or county? If so, specify.

No

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

No residents, 3 people will work in the facility.

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

None.

[11] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-8-Land-shoreline-use

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.

Zoned light industrial/Commercial

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

N/A

9. Housing

Find help answering housing questions[12]

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

Find help answering aesthetics questions[13]

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:

N/A

[12] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-9-Housing
[13] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-10-Aesthetics

11. Light and glare

Find help answering light and glare questions[14]

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

Find help answering recreation questions

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

None

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

No

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

13. Historic and cultural preservation

Find help answering historic and cultural preservation questions[15]

a. **Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.**

No

b. **Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.** No

[14] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-11-Light-glare

[15] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-13-Historic-cultural-p

c. **Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.**

N/A

d. **Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.**

N/A

14. Transportation

Find help with answering transportation questions[16]

a. **Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.**

N/A

b. **Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?**

Local transit stop within a ¼ mile walk

c. **Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).**

No

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

No

e. **How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?**

No additional traffic

f. **Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.**

No

[16] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-14-Transportation

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

N/A

15. Public services

Find help answering public service questions[17]

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

No

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

N/A

16. Utilities

Find help answering utilities questions[18]

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

Electric, Sewer, Water, Refuse Service, Telephone

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.

None

C.Signature

Find help about who should sign[19]

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.

X _____

Type name of signee:

Position and agency/organization:

[17] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-15-public-services
[18] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-16-utilities
[19] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-C-Signature

Date submitted:

D.Supplemental sheet for nonproject actions

Find help for the nonproject actions worksheet[20]

Do not use this section for project actions.

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. **How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?**

    - **Proposed measures to avoid or reduce such increases are:**

2. **How would the proposal be likely to affect plants, animals, fish, or marine life?**

    - **Proposed measures to protect or conserve plants, animals, fish, or marine life are:**

3. **How would the proposal be likely to deplete energy or natural resources?**

    - **Proposed measures to protect or conserve energy and natural resources are:**

4. **How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection, such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?**

    - **Proposed measures to protect such resources or to avoid or reduce impacts are:**

5. **How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?**

[20] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-d-non-project-actions

- **Proposed measures to avoid or reduce shoreline and land use impacts are:**

6. **How would the proposal be likely to increase demands on transportation or public services and utilities?**

   - **Proposed measures to reduce or respond to such demand(s) are:**

7. **Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.**

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 01/26/2017 Version number 3 Reviewed on 01/26/2017

1 Identification

· **Product identifier**
· **Product number** HSA6A484
· **Trade name:** **TRASPARENT SELF SEALER OP20**
· **Application of the substance / the mixture** For professional use

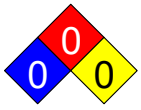
· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
IVM Chemicals srl
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
· **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**			
34590-94-8	(2-methoxymethylethoxy)propanol	Flam. Liq. 4, H227	1-<5%
112-34-5	2-(2-butoxyethoxy)ethanol	Eye Irrit. 2A, H319	1-2.49%

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:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.

(Contd. on page 2)

(Contd. of page 1)

· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, refer to Section 11.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
· **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).
Dispose contaminated material as waste according to Section 13.
· **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.
· **Protective Action Criteria for Chemicals**

· PAC-1:		
34590-94-8	(2-methoxymethylethoxy)propanol	150 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m3
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
57-55-6	propane-1,2-diol	30 mg/m3
25322-69-4	Propane-1,2-diol, propoxylated	30 mg/m3
68439-49-6	c16-18 alcohols ethoxylated	3.8 mg/m3

· PAC-2:		
34590-94-8	(2-methoxymethylethoxy)propanol	1700* ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m3
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
57-55-6	propane-1,2-diol	1,300 mg/m3
25322-69-4	Propane-1,2-diol, propoxylated	330 mg/m3
68439-49-6	c16-18 alcohols ethoxylated	42 mg/m3

· PAC-3:		
34590-94-8	(2-methoxymethylethoxy)propanol	9900** ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m3
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm

(Contd. on page 3)

(Contd. of page 2)

57-55-6	propane-1,2-diol	7,900 mg/m3
25322-69-4	Propane-1,2-diol, propoxylated	2,000 mg/m3
68439-49-6	c16-18 alcohols ethoxylated	250 mg/m3

7 Handling and storage

· **Handling:**
· **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:**
Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
In cases where there is no reported expiration date , it means that the product must be used within 8 months.
Take on temperature greater than 5 °C
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
34590-94-8 (2-methoxymethylethoxy)propanol	
PEL	Long-term value: 600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin
TLV	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin
112-34-5 2-(2-butoxyethoxy)ethanol	
TLV	Long-term value: 67.5* mg/m³, 10* ppm *Inhalable fraction and vapor

· **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:**
Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product .

(Contd. on page 4)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 01/26/2017 Version number 3 Reviewed on 01/26/2017

Product number HSA6A484
Trade name: TRASPARENT SELF SEALER OP20

(Contd. of page 3)

· **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 not 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:**	Fluid
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	225 °C (437 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	0.9 Vol %
· **Upper:**	14.0 Vol %
· **Vapor pressure at 20 °C (68 °F):**	1 hPa (1 mm Hg)
· **Density at 20 °C (68 °F):**	1.034 g/cm³ (8.629 lbs/gal)
· **Relative density**	Not determined.
· **Vapor 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 at 20 °C (68 °F):**	60 s (ISO 6 mm)
· **Oxidising properties:**	N.A.

(Contd. on page 5)

Product number HSA6A484
Trade name: TRASPARENT SELF SEALER OP20

(Contd. of page 4)

· **Solvent content:**	
· **Water:**	61.6 %
· **VOC content:**	7.3 % 75.5 g/l / 0.63 lb/gl
· **Solids content:**	31.1 %

· **Other information (HAPS)**

112-34-5	2-(2-butoxyethoxy)ethanol	1-2,49%

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** typical of the product as indicated in the data sheet
· **Chemical stability** The product is stable in normal conditions of storage and use recommended
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored 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:**

· **LD/LC50 values that are relevant for classification:**		
34590-94-8 (2-methoxymethylethoxy)propanol		
Oral	LD50	5135 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	19020 mg/kg (rab)
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD50	2410 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2764 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	LD50	1193 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	4115 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
Contains 1,2-benzisothiazol-3(2H)-one, a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1). May produce an allergic reaction.
The product is not subject to classification according to internally approved calculation methods for preparations:
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.

(Contd. on page 6)

Product number HSA6A484
Trade name: TRASPARENT SELF SEALER OP20

(Contd. of page 5)

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
7631-86-9	silicon dioxide, chemically prepared	3

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
34590-94-8 (2-methoxymethylethoxy)propanol	
EC50	970 mg/l (algae) (72 h)
	1919 mg/l (daphnia) (48 h)
LC50 (96h)	1001 mg/l (Fish)
112-34-5 2-(2-butoxyethoxy)ethanol	
EC50	101 mg/l (algae) (48 h)
	101 mg/l (daphnia) (48 h)
LC50 (96h)	1300 mg/l (Leuciscus idus melanotus)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC50	2.94 mg/l (daphnia) (48 h)
LC50 (96h)	2.18 mg/l (Fish)
55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)	
EC50	0.1 mg/l (daphnia) (48 h)

· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative 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.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Smaller quantities can be disposed of with household waste.
Hand over to hazardous waste disposers.
Dispose of contents and container in accordance with local state and federal regulations.

(Contd. on page 7)

(Contd. of page 6)

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **UN proper shipping name**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Not applicable
· **Packing group**	
· **DOT, IMDG, IATA**	Not applicable
· **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":**	Not applicable

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

Requirements of Federal Register

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

112-34-5	2-(2-butoxyethoxy)ethanol	1-2,49%
111-76-2	2-butoxyethanol	0.1-<0.5%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **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.

(Contd. on page 8)

(Contd. of page 7)

· **Carcinogenic categories**

· EPA (Environmental Protection Agency)			
111-76-2	2-butoxyethanol	NL	0.1-<0.5%

· TLV (Threshold Limit Value established by ACGIH)		
111-76-2	2-butoxyethanol	A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

· **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.

· **Department issuing SDS:** IVM Chemicals Srl
· **Contact:** See emergency phone
· **Date of preparation / last revision** 01/26/2017 / 2
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
· **Sources**
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments
Directive 67/548/EEC and following amendments and adjustments
Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/24/2018 Version number 33 Reviewed on 07/17/2018

1 Identification

· **Product identifier**
· **Product number** HBT7A01
· **Trade name:** **WB WHITE SEALER**
· **Application of the substance / the mixture** For professional use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
IVM Chemicals srl
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
· **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

*
2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS08 Health hazard

Carc. 1A H350 May cause cancer.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

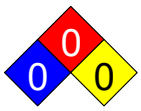
GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Quartz (SiO2)
· **Hazard statements**
H350 May cause cancer.
· **Precautionary statements**

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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

(Contd. on page 2)

ivm Chemicals
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Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/24/2018 Version number 33 Reviewed on 07/17/2018

Product number HBT7A01
Trade name: WB WHITE SEALER

(Contd. of page 1)

· **HMIS-ratings (scale 0 - 4)**

HEALTH *0	Health = *0
FIRE 0	Fire = 0
REACTIVITY 0	Reactivity = 0

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**		
111-76-2	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	2.5-4.99%
14808-60-7	Quartz (SiO2) Carc. 1A, H350	≥0.1-<0.5%

*
4 First-aid measures

· **Description of first aid measures**
· **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
personal protective equipment for first aid responders is recommended. (please see section 8)
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** Do not induce vomiting; immediately call for medical help.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, refer to Section 11.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

*
5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
· **Protective equipment:**
Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

(Contd. on page 3)

(Contd. of page 2)

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources
· **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).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
471-34-1	calcium carbonate	45 mg/m³
57-55-6	propane-1,2-diol	30 mg/m³
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
14808-60-7	Quartz (SiO2)	0.075 mg/m³

· **PAC-2:**		
471-34-1	calcium carbonate	210 mg/m³
57-55-6	propane-1,2-diol	1,300 mg/m³
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
14808-60-7	Quartz (SiO2)	33 mg/m³

· **PAC-3:**		
471-34-1	calcium carbonate	1,300 mg/m³
57-55-6	propane-1,2-diol	7,900 mg/m³
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
14808-60-7	Quartz (SiO2)	200 mg/m³

*

7 Handling and storage

· **Handling:**
· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
· **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:**
Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
In cases where there is no reported expiration date , it means that the product must be used within 8 months.
Take on temperature greater than 5 ° C
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

(Contd. on page 4)

(Contd. of page 3)

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

14808-60-7 Quartz (SiO2)	
PEL	Long-term value: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m³ *as respirable fraction

· **Ingredients with biological limit values:**

111-76-2 2-butoxyethanol	
BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product .

· **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 not 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.

(Contd. on page 5)

(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
· **Form:**	Fluid
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	240 °C (464 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	1.1 Vol %
· **Upper:**	10.6 Vol %
· **Vapor pressure at 20 °C (68 °F):**	1.2 hPa (0.9 mm Hg)
· **Density (+/- 0,03) at 20 °C (68 °F):**	1.596 g/cm³ (13.319 lbs/gal)
· **Relative density**	Not determined.
· **Vapor 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 at 20 °C (68 °F):**	40 s (ISO 4 mm)
· **Oxidising properties:**	N.A.
· **Solvent content:**	
· **Water:**	31.9 %
· **VOC content:**	3.52 % 56.1 g/l / 0.47 lb/gl
· **Solids content:**	64.6 %

(Contd. on page 6)

(Contd. of page 5)

· **Other information (HAPS)**		
112-34-5	2-(2-butoxyethoxy)ethanol	<0.1%
· **Other information**	No further relevant information available.	

10 Stability and reactivity

· **Reactivity** typical of the product as indicated in the data sheet
· **Chemical stability** The product is stable in normal conditions of storage and use recommended
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored 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.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
111-76-2 2-butoxyethanol		
Oral	LD50	1,480 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rab)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
Safety data sheet available on request.

· **Carcinogenic categories**
Titanium dioxide
IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."
Quartz.
No significant exposure to quartz is thought to occur during the use of products in which quartz is bound to other materials, such as resin, and for quantities present in the formula

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**		
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
14808-60-7	Quartz (SiO2)	1

· **NTP (National Toxicology Program)**		
14808-60-7	Quartz (SiO2)	≥0.1-<0.5%

(Contd. on page 7)

Product number HBT7A01
Trade name: WB WHITE SEALER

(Contd. of page 6)

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

111-76-2 2-butoxyethanol

EC50	1,840 mg/l (algae) (72 h)
	1,550 mg/l (daphnia) (48 h)
LC50 (96h)	1,474 mg/l (Fish)

· **Persistence and degradability** No further relevant information available.

· **Substances Easily biodegradable**

111-76-2	2-butoxyethanol	.

· **Behavior in environmental systems:**
· **Bioaccumulative 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.
· **Other adverse effects** No further relevant information available.

*
13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to hazardous waste disposers.
Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **UN proper shipping name**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Not applicable
· **Packing group**	
· **DOT, IMDG, IATA**	Not applicable

(Contd. on page 8)

(Contd. of page 7)

· **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":**	Not applicable

*

15 Regulatory information

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

111-76-2	2-butoxyethanol	2.5-4.99%
112-34-5	2-(2-butoxyethoxy)ethanol	<0.1%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
Titanium dioxide only in bound form
Quartz (SiO2) only in bound form

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	5-9.99%
14808-60-7	Quartz (SiO2)	*	≥0.1-<0.5%

· **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)**

111-76-2	2-butoxyethanol	NL	2.5-4.99%

· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
14807-96-6	Talc (Mg3H2(SiO3)4)	A4
111-76-2	2-butoxyethanol	A3
14808-60-7	Quartz (SiO2)	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	5-9.99%
14808-60-7	Quartz (SiO2)	≥0.1-<0.5%

· **National regulations:**
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

(Contd. on page 9)

(Contd. of page 8)

· ***Additional classification according to Decree on Hazardous Materials:***
Carcinogenic hazardous material group III (dangerous).

· ***Information about limitation of use:***
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **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.

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** See emergency phone

· ***Date of preparation / last revision*** 09/24/2018 / 32

· ***Abbreviations and acronyms:***
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Carc. 1A: Carcinogenicity – Category 1A

· ***Sources***
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments

Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer

· **** Data compared to the previous version altered.***

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 11/12/2015 Version number 85 Reviewed on 11/12/2015

1 Identification

· **Product identifier**
· **Product number** HKR114
· **Trade name: WB WHITE CONV 20SH**
· **Application of the substance / the mixture** For professional use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
IVM Chemicals srl
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
· **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**		
111-76-2	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Flam. Liq. 4, H227	1-2,49%
34590-94-8	(2-methoxymethylethoxy)propanol Flam. Liq. 4, H227	1-<5%

(Contd. on page 2)

ivm Chemicals
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Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 11/12/2015 Version number 85 Reviewed on 11/12/2015

Product number HKR114
Trade name: WB WHITE CONV 20SH

(Contd. of page 1)

55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	<0.0015%

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:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, refer to Section 11.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
· **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).
Dispose contaminated material as waste according to Section 13.
· **Reference to other sections**
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

· **Handling:**
· **Precautions for safe handling** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

(Contd. on page 3)

(Contd. of page 2)

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
In cases where there is no reported expiration date , it means that the product must be used within 8 months.
Take on temperature greater than 5 °C
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· Components with limit values that require monitoring at the workplace:	
111-76-2 2-butoxyethanol	
PEL	Long-term value: 240 mg/mį, 50 ppm Skin
REL	Long-term value: 24 mg/mį, 5 ppm Skin
TLV	Long-term value: 97 mg/mį, 20 ppm BEI
34590-94-8 (2-methoxymethylethoxy)propanol	
PEL	Long-term value: 600 mg/mį, 100 ppm Skin
REL	Short-term value: 900 mg/mį, 150 ppm Long-term value: 600 mg/mį, 100 ppm Skin
TLV	Short-term value: 909 mg/mį, 150 ppm Long-term value: 606 mg/mį, 100 ppm Skin

· Ingredients with biological limit values:	
111-76-2 2-butoxyethanol	
BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis

· **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:**
Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product .

(Contd. on page 4)

(Contd. of page 3)

· **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 not 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:**	Fluid
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	100 °C (212 °F)
· **Flash point:**	100 °C (212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	240 °C (464 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	1.1 Vol %
· **Upper:**	14.0 Vol %
· **Vapor pressure at 20 °C (68 °F):**	1.2 hPa (1 mm Hg)
· **Density at 20 °C (68 °F):**	1.198 g/cmį (9.997 lbs/gal)
· **Relative density**	Not determined.
· **Vapor 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 at 20 °C (68 °F):**	60 s (ISO 6 mm)
· **Oxidising properties:**	N.A.

(Contd. on page 5)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 11/12/2015 Version number 85 Reviewed on 11/12/2015

Product number HKR114
Trade name: WB WHITE CONV 20SH

(Contd. of page 4)

· **Solvent content:**	
· **Water:**	47.6 %
· **VOC content:**	3.8 % 45.9 g/l / 0.38 lb/gl
· **Solids content:**	48.4 %

· **Other information (HAPS)**

112-34-5	2-(2-butoxyethoxy)ethanol	0.1-<0.5%

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** typical of the product as indicated in the data sheet
· **Chemical stability** The product is stable in normal conditions of storage and use recommended
· **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:**

· **LD/LC50 values that are relevant for classification:**

111-76-2 2-butoxyethanol		
Oral	LD50	1480 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rab)
34590-94-8 (2-methoxymethylethoxy)propanol		
Oral	LD50	5135 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	19020 mg/kg (rab)

· **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:
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**
Titanium dioxide
IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

(Contd. on page 6)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 11/12/2015 Version number 85 Reviewed on 11/12/2015

Product number HKR114
Trade name: WB WHITE CONV 20SH

(Contd. of page 5)

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B Only for Dust

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
111-76-2 2-butoxyethanol	
EC50	101 mg/l (daphnia) (24 h)
LC50 (96h)	101 mg/l (Fish)
34590-94-8 (2-methoxymethylethoxy)propanol	
EC50	970 mg/l (algae) (72 h)
	1919 mg/l (daphnia) (48 h)
LC50 (96h)	1001 mg/l (Fish)
55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)	
EC50	0.1 mg/l (daphnia) (48 h)

· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative 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.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Hand over to hazardous waste disposers.
Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**
· **DOT, ADN, IMDG, IATA** Not applicable

(Contd. on page 7)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 11/12/2015 Version number 85 Reviewed on 11/12/2015

Product number HKR114
Trade name: WB WHITE CONV 20SH

(Contd. of page 6)

· **UN proper shipping name**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Not applicable
· **Packing group**	
· **DOT, IMDG, IATA**	Not applicable
· **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":**	Not applicable

*
15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

Requirements of Federal Register

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

111-76-2	2-butoxyethanol	1-2,49%
112-34-5	2-(2-butoxyethoxy)ethanol	0.1-<0.5%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	15-19.9%

· **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)**

111-76-2	2-butoxyethanol	NL	1-2,49%

· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
111-76-2	2-butoxyethanol	A3
1314-23-4	zirconium dioxide	A4

(Contd. on page 8)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 11/12/2015 Version number 85 Reviewed on 11/12/2015

Product number HKR114
Trade name: WB WHITE CONV 20SH

(Contd. of page 7)

· NIOSH-Ca (National Institute for Occupational Safety and Health)		
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	15-19.9%

· **National regulations:**
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
· **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.

· **Department issuing SDS:** IVM Chemicals Srl
· **Contact:** See emergency phone
· **Date of preparation / last revision** 11/12/2015 / 84
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 4: Flammable liquids, Hazard Category 4
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
· **Sources**
Directive 1999/45/EC and following amendments
Directive 67/548/EEC and following amendments and adjustments
Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer
· *** Data compared to the previous version altered.**

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 13 Reviewed on 09/16/2015

1 Identification

· **Product identifier**
· **Product number** HSC6036
· **Trade name: HYDROCOAT F. MULTILAYER 10G**
· **Relevant identified uses of the substance or mixture and uses advised against**
A coating composition for water-based coating and / or decoration of wooden artefacts
· **Application of the substance / the mixture** For professional use

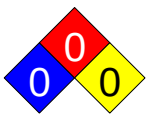
· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
IVM Chemicals srl
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
· **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

*
2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**		
111-76-2	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Flam. Liq. 4, H227	1-2.49%
34590-94-8	(2-methoxymethylethoxy)propanol Flam. Liq. 4, H227	1-<5%

(Contd. on page 2)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 13 Reviewed on 09/16/2015

Product number HSC6036
Trade name: HYDROCOAT F. MULTILAYER 10G

(Contd. of page 1)

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:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, refer to Section 11.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

*
5 Fire-fighting 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**
Formation of toxic gases is possible during heating or in case of fire.
· **Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
· **Protective equipment:** No special measures required.

*
6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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).
Dispose contaminated material as waste according to Section 13.
· **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

· **Handling:**
· **Precautions for safe handling** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

(Contd. on page 3)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 13 Reviewed on 09/16/2015

Product number HSC6036
Trade name: HYDROCOAT F. MULTILAYER 10G

(Contd. of page 2)

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
In cases where there is no reported expiration date , it means that the product must be used within 8 months.
Take on temperature greater than 5 °C
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

*
8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· Components with limit values that require monitoring at the workplace:	
111-76-2 2-butoxyethanol	
PEL	Long-term value: 240 mg/mį, 50 ppm Skin
REL	Long-term value: 24 mg/mį, 5 ppm Skin
TLV	Long-term value: 97 mg/mį, 20 ppm BEI
34590-94-8 (2-methoxymethylethoxy)propanol	
PEL	Long-term value: 600 mg/mį, 100 ppm Skin
REL	Short-term value: 900 mg/mį, 150 ppm Long-term value: 600 mg/mį, 100 ppm Skin
TLV	Short-term value: 909 mg/mį, 150 ppm Long-term value: 606 mg/mį, 100 ppm Skin

· Ingredients with biological limit values:	
111-76-2 2-butoxyethanol	
BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis

· **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:**
Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product .

(Contd. on page 4)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 13 Reviewed on 09/16/2015

Product number HSC6036
Trade name: HYDROCOAT F. MULTILAYER 10G

(Contd. of page 3)

· **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 not 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:**	Fluid
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	240 °C (464 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	0.6 Vol %
· **Upper:**	20.4 Vol %
· **Vapor pressure at 20 °C (68 °F):**	1.2 hPa (1 mm Hg)
· **Density at 20 °C (68 °F):**	1.039 g/cmį (8.67 lbs/gal)
· **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 at 20 °C (68 °F):**	60 s (ISO 6 mm)
· **Oxidising properties:**	N.A.

(Contd. on page 5)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 13 Reviewed on 09/16/2015

Product number HSC6036
Trade name: HYDROCOAT F. MULTILAYER 10G

(Contd. of page 4)

· **Solvent content:**
· **Water:** 61.1 %
· **VOC content:** 5.6 %
58.5 g/l / 0.49 lb/gl

· **Solids content:** 33.3 %

· **Other information (HAPS)**

112-34-5	2-(2-butoxyethoxy)ethanol	0.1-<0.5%

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** typical of the product as indicated in the data sheet
· **Chemical stability** The product is stable in normal conditions of storage and use recommended
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored 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:**

· **LD/LC50 values that are relevant for classification:**

111-76-2 2-butoxyethanol		
Oral	LD50	1480 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rab)
34590-94-8 (2-methoxymethylethoxy)propanol		
Oral	LD50	5135 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	19020 mg/kg (rab)

· **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:
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.

(Contd. on page 6)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 13 Reviewed on 09/16/2015

Product number HSC6036
Trade name: HYDROCOAT F. MULTILAYER 10G

(Contd. of page 5)

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

*
12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
111-76-2 2-butoxyethanol	
EC50	101 mg/l (daphnia) (24 h)
LC50 (96h)	101 mg/l (Fish)
34590-94-8 (2-methoxymethylethoxy)propanol	
EC50	970 mg/l (algae) (72 h)
	1919 mg/l (daphnia) (48 h)
LC50 (96h)	1001 mg/l (Fish)

· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative 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.
· **Other adverse effects** No further relevant information available.

*
13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Smaller quantities can be disposed of with household waste.
Hand over to hazardous waste disposers.
Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **UN proper shipping name**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Not applicable
· **Packing group**	
· **DOT, IMDG, IATA**	Not applicable

(Contd. on page 7)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 13 Reviewed on 09/16/2015

Product number HSC6036
Trade name: HYDROCOAT F. MULTILAYER 10G

(Contd. of page 6)

· **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":** -

*
15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

Requirements of Federal Register

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

111-76-2	2-butoxyethanol	1-2,49%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **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)**

111-76-2	2-butoxyethanol	NL	1-2,49%

· **TLV (Threshold Limit Value established by ACGIH)**

112945-52-5	silicon dioxide	A4
111-76-2	2-butoxyethanol	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 8)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

(Contd. of page 7)

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.

· **Department issuing SDS:** IVM Chemicals Srl
· **Contact:** See emergency phone
· **Date of preparation / last revision** 09/18/2015 / 12
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 4: Flammable liquids, Hazard Category 4
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
· **Sources**
Directive 1999/45/EC and following amendments
Directive 67/548/EEC and following amendments and adjustments
Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer
· ***** Data compared to the previous version altered.**

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 18 Reviewed on 09/18/2015

1 Identification

· **Product identifier**
· **Product number** HGA14
· **Trade name:** **CLEAR WB TOPCOAT 2K 20GL**
· **Relevant identified uses of the substance or mixture and uses advised against**
A coating composition for water-based coating and / or decoration of wooden artefacts
· **Application of the substance / the mixture** For professional use

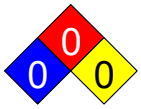
· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
IVM Chemicals srl
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
· **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

*
2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**		
111-76-2	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Flam. Liq. 4, H227	2.5-4.99%
34590-94-8	(2-methoxymethylethoxy)propanol Flam. Liq. 4, H227	1-<5%

(Contd. on page 2)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 18 Reviewed on 09/18/2015

Product number HGA14
Trade name: CLEAR WB TOPCOAT 2K 20GL

(Contd. of page 1)

1071-93-8	adipohydrazide Aquatic Chronic 2, H411 Aquatic Acute 2, H401	0.1-<0.5%
68439-49-6	c16-18 alcohols ethoxylated Acute Tox. 3, H301 Aquatic Acute 1, H400 Eye Irrit. 2A, H319	0.1-<0.5%
55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1) Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	<0.0015%

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:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, refer to Section 11.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting 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**
Formation of toxic gases is possible during heating or in case of fire.
· **Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Product number HGA14
Trade name: CLEAR WB TOPCOAT 2K 20GL

(Contd. of page 2)

· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to Section 13.
· **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

· **Handling:**
· **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:**
Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
In cases where there is no reported expiration date , it means that the product must be used within 8 months.
Take on temperature greater than 5 °C
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
111-76-2 2-butoxyethanol	
PEL	Long-term value: 240 mg/m³, 50 ppm Skin
REL	Long-term value: 24 mg/m³, 5 ppm Skin
TLV	Long-term value: 97 mg/m³, 20 ppm BEI
34590-94-8 (2-methoxymethylethoxy)propanol	
PEL	Long-term value: 600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin
TLV	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin

(Contd. on page 4)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Product number HGA14
Trade name: CLEAR WB TOPCOAT 2K 20GL

(Contd. of page 3)

· **Ingredients with biological limit values:**

111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis

· **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:**
Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product .
· **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 not 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.

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
· **Form:**	Fluid
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	240 °C (464 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	1.1 Vol %

(Contd. on page 5)

(Contd. of page 4)

· **Upper:**	14.0 Vol %
· **Vapor pressure at 20 °C (68 °F):**	1.2 hPa (1 mm Hg)
· **Density at 20 °C (68 °F):**	1.034 g/cm³ (8.629 lbs/gal)
· **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 at 20 °C (68 °F):**	60 s (ISO 6 mm)
· **Oxidising properties:**	N.A.
· **Solvent content:**	
· **Water:**	61.8 %
· **VOC content:**	5.8 % 60.3 g/l / 0.50 lb/gl
· **Solids content:**	32.3 %

· **Other information (HAPS)**
None of the ingredients is listed.

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** typical of the product as indicated in the data sheet
· **Chemical stability** The product is stable in normal conditions of storage and use recommended
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored 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.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
111-76-2 2-butoxyethanol		
Oral	LD50	1480 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rab)
34590-94-8 (2-methoxymethylethoxy)propanol		
Oral	LD50	5135 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	19020 mg/kg (rab)
1071-93-8 adipohydrazide		
Oral	LD50	2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

(Contd. on page 6)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 18 Reviewed on 09/18/2015

Product number HGA14
Trade name: CLEAR WB TOPCOAT 2K 20GL

(Contd. of page 5)

2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	LD50	1193 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	4115 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
Contains 1,2-benzisothiazol-3(2H)-one, a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1). May produce an allergic reaction.
Safety data sheet available on request.
The product is not subject to classification according to internally approved calculation methods for preparations:
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.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
111-76-2 2-butoxyethanol	
EC50	101 mg/l (daphnia) (24 h)
LC50 (96h)	101 mg/l (Fish)
34590-94-8 (2-methoxymethylethoxy)propanol	
EC50	970 mg/l (algae) (72 h)
	1919 mg/l (daphnia) (48 h)
LC50 (96h)	1001 mg/l (Fish)
1071-93-8 adipohydrazide	
EC50	9.19 mg/l (algae) (72 h)
	101 mg/l (daphnia) (48 h)
LC50 (96h)	101 mg/l (Fish)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC50	2.94 mg/l (daphnia) (48 h)
LC50 (96h)	2.18 mg/l (Fish)

(Contd. on page 7)

Product number HGA14
Trade name: CLEAR WB TOPCOAT 2K 20GL

(Contd. of page 6)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	
EC50	0.1 mg/l (daphnia) (48 h)

· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative 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.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Smaller quantities can be disposed of with household waste.
Hand over to hazardous waste disposers.
Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **UN proper shipping name**	
· **DOT, ADN, IMDG, IATA**	Not applicable
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Not applicable
· **Packing group**	
· **DOT, IMDG, IATA**	Not applicable
· **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":**	-

(Contd. on page 8)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 18 Reviewed on 09/18/2015

Product number HGA14
Trade name: CLEAR WB TOPCOAT 2K 20GL

(Contd. of page 7)

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

Requirements of Federal Register

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

111-76-2	2-butoxyethanol	2,5-4,99%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **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)**

111-76-2	2-butoxyethanol	NL	2,5-4,99%

· **TLV (Threshold Limit Value established by ACGIH)**

111-76-2	2-butoxyethanol	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
· **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.

· **Department issuing SDS:** IVM Chemicals Srl
· **Contact:** See emergency phone
· **Date of preparation / last revision** 09/18/2015 / 17
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)

(Contd. on page 9)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015 Version number 18 Reviewed on 09/18/2015

Product number HGA14
Trade name: CLEAR WB TOPCOAT 2K 20GL

(Contd. of page 8)

HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 4: Flammable liquids, Hazard Category 4
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - AcuteHazard, Category 2
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

· **Sources**
Directive 1999/45/EC and following amendments
Directive 67/548/EEC and following amendments and adjustments
Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer

· *** Data compared to the previous version altered.**