

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: Pacific Ironworks, LLC	For ORCAA use only File No: 182 County No: 27 Source No: 984 Application No: 24 NOC 1639
Mailing Address: 14450 NE 29th Place, Bellevue WA 98007	Date Received: <div style="color: red; font-size: 1.2em; font-weight: bold;">Received</div> <div style="color: red; font-size: 1.2em; font-weight: bold;">FEB 16 2024</div> <div style="color: red; font-size: 1.2em; font-weight: bold;">ORCAA</div>
Physical Address of Project or New Source: 260 McCleary Road, McCleary WA 98557	
Billing Address: 14450 NE 29th Place, Bellevue WA 98007	
Project or Equipment to be installed/established: Paint booth	
Anticipated startup date: <u>3</u> / <u>1</u> / <u>2024</u> Is facility currently registered with ORCAA? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
This project must meet the requirements of the State Environmental Policy Act (SEPA) before ORCAA can issue final approval. Indicate the SEPA compliance option: <input type="checkbox"/> SEPA was satisfied by _____ (government agency) on ___/___/___ (date) - Include a copy of the SEPA determination <input type="checkbox"/> SEPA threshold determination by _____ (government agency) is pending - Include a copy of the environmental checklist <input checked="" type="checkbox"/> ORCAA is the only government agency requiring a permit - Include ORCAA Environmental Checklist <input type="checkbox"/> This project is exempt from SEPA per _____ (WAC citation).	
Name of Owner of Business: Ahbleza 'Blaze' Pattison	Agency Use Only
Title: President	
Email: <u>Bpattison@pacificbuild.com</u> Phone: <u>206-510-3651</u>	
Authorized Representative for Application (if different than owner):	
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: 02/13/2024
IMPORTANT: Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.	

OLYMPIC REGION CLEAN AIR AGENCY

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FORM 1D- Contact Information

Business Name Pacific Ironworks, LLC	FOR ORCAA USE
	FILE # 182
Physical Site Address (Street address, city, state, zip) 260 McCleary Road McCleary, WA 98557	CTY # 27
	SRC # 994
	Date Received Received FEB 16 2023 ORCAA
Previous Business Name (if applicable)	

Contact Information

Inspection Contact	
Name Donny McMahon	Title Steel Division Manager
Phone 360-884-2135	Email Dmcmahon@pacificbuild.com
Billing Contact	
Name Deb Roddick	Title Controller
Phone 6024785312	Email Droddick@pacificbuild.com
Emission Inventory Contact	
Name Donny McMahon	Title Steel Division Manager
Phone 360-884-2135	Email Dmcmahon@pacificbuild.com
Complaint Contact	
Name Donny McMahon	Title Steel Division Manager
Phone 360-884-2135	Email Dmcmahon@pacificbuild.com
Permit Contact	
Name Donny McMahon	Title Steel Division Manager
Phone 360-884-2135	Email Dmcmahon@pacificbuild.com

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

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

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

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

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



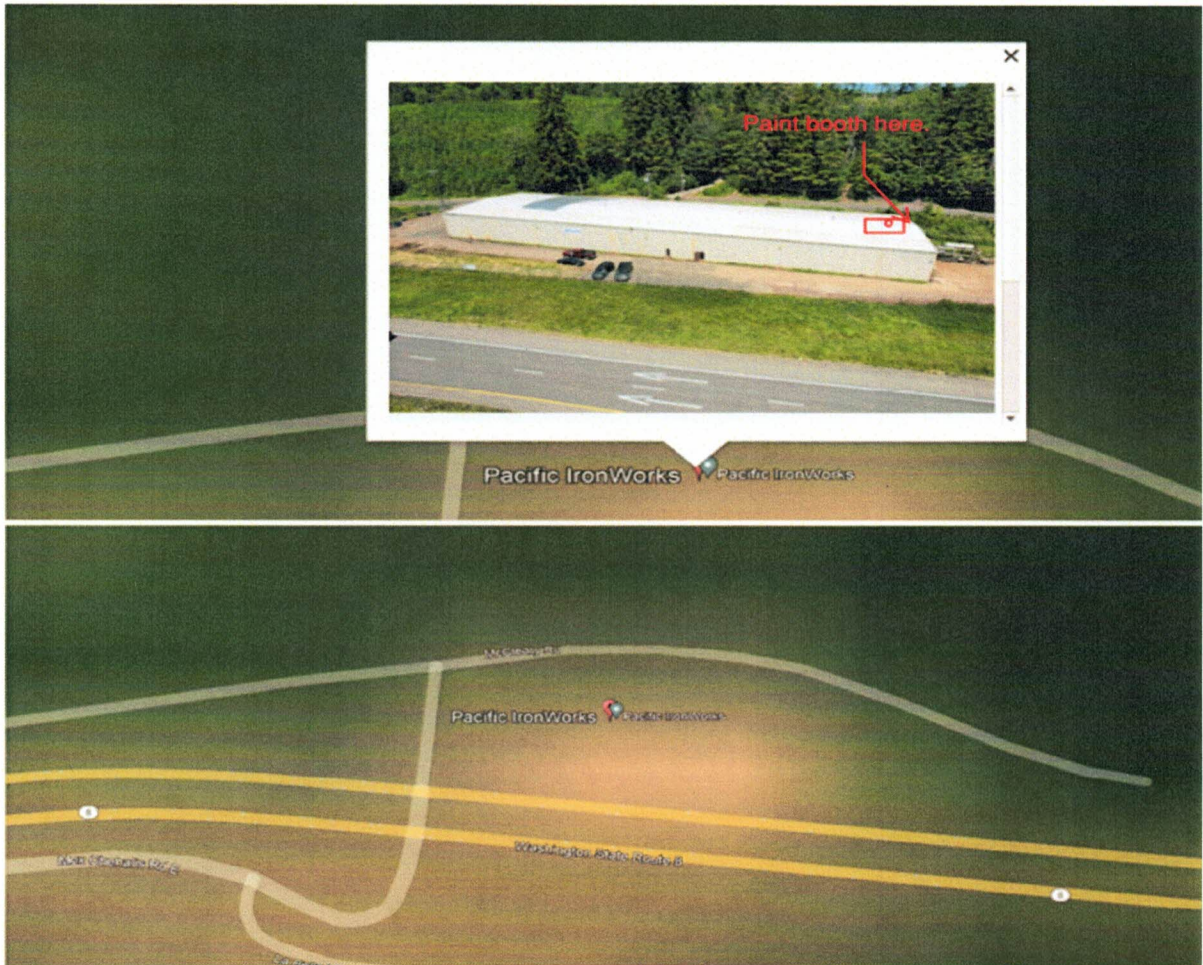
Our average consumption of welding wire per year: #1,700lbs

Projects mainly consist of: handrails, guardrails, post and beam structural steel

Process of cutting all materials is 95% Horizontal bandsaw.

Gases used for welding operations: Argon, Carbon Dioxide, Oxygen, Acetylene

Google Earth: We are in the wood's kind of out here so this is the best shot I could get. Bottom photo shows where we are, and top is a blown up picture of the shop.





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 2940 Limited Lane NW - Olympia, Washington 98502
 Telephone: (360)-539-7610 – Fax: (360)-491-6308
www.orcaa.org

FORM 8

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

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

Shop Information

Business Name: Pacific Ironworks, LLC	Contact Person: Donny McMahon
	Phone Number: 360-884-2135
	Email: Dmcmahon@pacificbuild.com
Operating Schedule: 10 hrs/day, 4 days/wk, 52 wks/yr	Indicate days when operating: <input checked="" type="checkbox"/> M <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/> Thu <input type="checkbox"/> F <input type="checkbox"/> Sat <input type="checkbox"/> Sun

Process Information

Flow:	<input type="checkbox"/> Cross front flow <input type="checkbox"/> Full downdraft <input type="checkbox"/> Side downdraft <input checked="" type="checkbox"/> Combination <input type="checkbox"/> Cross reverse flow <input type="checkbox"/> Semi-downdraft <input type="checkbox"/> Updraft <input type="checkbox"/> Other (explain in attachment)
Exhaust:	<input checked="" type="checkbox"/> Side Wall <input type="checkbox"/> Pit/Trench Design <input checked="" type="checkbox"/> Ceiling <input type="checkbox"/> Rear Wall <input type="checkbox"/> Front/Doors
Intake Type:	<input type="checkbox"/> Natural <input checked="" type="checkbox"/> Forced (air make-up unit)
Enclosure Type:	<input checked="" type="checkbox"/> Fully enclosed <input type="checkbox"/> Compact/modular <input type="checkbox"/> Open table/bench <input type="checkbox"/> Closed top open front (CTOF) <input type="checkbox"/> Curtain/tent/drape <input type="checkbox"/> Other (explain in attachment) <input type="checkbox"/> Tunnel
Width (feet): 14	Length (feet): 42 Height (feet): 12
Manufacturer:	Global Finishing Solutions
Model Number:	DGP2-480-AB-C
Serial Number:	V96810-A
Pressure Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filter Plenum: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Intended Applicator Usage (see next section):	<input checked="" type="checkbox"/> Applicator #1 <input type="checkbox"/> Applicator #3 <input type="checkbox"/> Applicator #5 <input checked="" type="checkbox"/> Applicator #2 <input type="checkbox"/> Applicator #4
Air Pollution Control Methods:	<input type="checkbox"/> Water Wash <input checked="" type="checkbox"/> Low VOC coatings <input type="checkbox"/> Cartridge unit (Form 12) <input type="checkbox"/> Scrubber <input type="checkbox"/> Cyclone (Form 13) <input type="checkbox"/> Enclosed spray gun cleaner <input type="checkbox"/> Oxidizer (Form 35) <input type="checkbox"/> Baghouse (Form 12)
Heater/Curing Information (if applicable)	
Heater Placement:	<input checked="" type="checkbox"/> Part of spray booth unit <input type="checkbox"/> Separate curing enclosure (Form 11)
Curing/Heating Type :	<input checked="" type="checkbox"/> Hot air dryer <input type="checkbox"/> Infrared dryer <input type="checkbox"/> Other (explain in attachment) <input type="checkbox"/> Ultraviolet <input type="checkbox"/> Boiler
Fuel/Heat Type :	<input type="checkbox"/> Natural gas <input type="checkbox"/> Electric <input type="checkbox"/> Other (explain in attachment) <input checked="" type="checkbox"/> Propane (LP) Gas <input type="checkbox"/> Diesel
Maximum Heating Rate (MMBtu/hr):	2000000
Maximum Air Flow Rate (acfm):	18500

RETURN TO ORCAA

Coating Operation Information

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

Coating Equipment Information

	Applicator #1	Applicator #2	Applicator #3	Applicator #4	Applicator #5
Coating Type**:	<input checked="" type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input checked="" type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating	<input type="checkbox"/> Brush/Roller <input type="checkbox"/> Web <input type="checkbox"/> Wet spray <input type="checkbox"/> Deposition <input type="checkbox"/> Powder <input type="checkbox"/> Plating
Manufacturer:					
Model:					
Quantity:					
Technology Type:	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input checked="" type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)	<input type="checkbox"/> HVLP <input type="checkbox"/> Electrostatic <input type="checkbox"/> Air-assisted airless <input type="checkbox"/> Airless <input type="checkbox"/> Air spray <input type="checkbox"/> Rotary cup <input type="checkbox"/> Airbrush <input type="checkbox"/> Other (explain in attachment)
Automation/Control:	<input checked="" type="checkbox"/> Manual <input type="checkbox"/> Automatic	<input checked="" type="checkbox"/> Manual <input type="checkbox"/> Automatic	<input type="checkbox"/> Manual <input type="checkbox"/> Automatic	<input type="checkbox"/> Manual <input type="checkbox"/> Automatic	<input type="checkbox"/> Manual <input type="checkbox"/> Automatic
Air Supply Pressure (psi):					
Fluid Output Pressure (psi):		3000max			
Mounting:	<input type="checkbox"/> Handheld Gun <input type="checkbox"/> Machine/Reciprocator	<input checked="" type="checkbox"/> Handheld Gun <input type="checkbox"/> Machine/Reciprocator	<input type="checkbox"/> Handheld Gun <input type="checkbox"/> Machine/Reciprocator	<input type="checkbox"/> Handheld Gun <input type="checkbox"/> Machine/Reciprocator	<input type="checkbox"/> Handheld Gun <input type="checkbox"/> Machine/Reciprocator

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

Dry Filter Information

	Pre-Filter	Exhaust Filter
Manufacturer:	Air Flow Technology	AJ DRALLE
Model:	series 55	15 gram
Media Type:	Tacky filter	fiberglass arrestor
Overall Arrest Efficiency (%):		99.37
Filtered Area (squared feet):	94.4	94.4

RETURN TO ORCAA

Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	<input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No
-------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------

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

Other Process Information

Abrasive Blasting:	<input type="checkbox"/> Yes (Form 17) <input checked="" type="checkbox"/> No
Welding: Basic MIG/TIG Welding	<input checked="" type="checkbox"/> Yes (Form 19) <input type="checkbox"/> No
Metal Cutting: Horizontal band saw- OXY-Acetylene	<input checked="" type="checkbox"/> Yes (Form 31) <input type="checkbox"/> No
Fluidized Bed Coating: None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cleaning/Etching/Degreasing Information

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

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

Exhaust/Stack/Building Information

Motor Power (hp):	5
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	18500
Fan Diameter (feet):	36"
Stack Type:	<input checked="" type="checkbox"/> Vertical (Ceiling Outlet) <input type="checkbox"/> Horizontal (Wall Outlet)
Stack Height (feet from ground):	25
Stack Inside Diameter (inches):	34"
Stack weatherproof damper or exhaust apparatus:	<input type="checkbox"/> None <input type="checkbox"/> Butterfly <input type="checkbox"/> Hexagonal <input checked="" type="checkbox"/> Inverted cone <input type="checkbox"/> Stack within stack <input type="checkbox"/> Other (explain in attachment)
Bldg. Peak Height (feet):	20
Bldg. Width (feet):	100
Bldg. Length (feet)	300

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	75
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):	400

Filing Fee:

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

ENVIRONMENTAL DATA SHEET
(Certified Product Data Sheet)

Date of Preparation
Nov 6, 2023

39 00 [2152]

PRODUCT NUMBER

B50AV8431

PRODUCT NAME

STEEL SPEC™ Universal Primer, Gray

MANUFACTURER'S NAME

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

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

Hazard Category (for SARA 311.312)

B50AV8431 = | Acute | Chronic | Fire |

Product Weight

13.67 lb/gal

Specific Gravity

1.64

FLASH POINT

109 °F PMCC

AS MIXED (as per product data sheet): Steel Spec Universal Primer B50AV8431 fill rex (B50AZ0004 Master) reduced 5pct

AS MIXED

Product Weight

13.36 lb/gal

Specific Gravity

1.61

FLASH POINT

71 °F TCC

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Light Aliphatic Hydrocarbon 64742-47-8	N	N	N	N	4	8
Ethylbenzene 100-41-4	N	Y	Y	Y	0.6	1
Xylene 1330-20-7	N	Y	Y	Y	4	7
Light Aromatic Hydrocarbons 64742-95-6	N	N	N	N	4	7
Cumene 98-82-8	N	Y	Y	Y	0.2	< 1
Trimethylbenzene 25551-13-7	N	N	N	N	2	4
Methyl n-Propyl Ketone 107-87-9	N	N	N	N	2	3
Methyl Isobutyl Ketone 108-10-1	N	Y	Y	Y	0.3	< 1

Regulated Compounds

Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Cobalt Compound	N	N	Y	Y	0.1	
Zinc Compound	N	N	Y	N	1	

Volatile Ingredients AS MIXED

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Light Aliphatic Hydrocarbon 64742-47-8	N	N	N	N	4	8
Ethylbenzene 100-41-4	N	Y	Y	Y	1	2
Xylene 1330-20-7	N	Y	Y	Y	6	11
Light Aromatic Hydrocarbons 64742-95-6	N	N	N	N	4	7
Cumene 98-82-8	N	Y	Y	Y	0.2	< 1
Trimethylbenzene 25551-13-7	N	N	N	N	2	4
Methyl n-Propyl Ketone 107-87-9	N	N	N	N	2	3
Methyl Isobutyl Ketone 108-10-1	N	Y	Y	Y	0.2	< 1

Regulated Compounds AS MIXED

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc Compound	N	N	Y	N	1	

Volatile Organic Compounds - U.S. EPA / Canada

	B50AV8431		AS MIXED Steel Spec Universal Primer B50AV8431 fill rex (B50AZ0004 Master) reduced 5pct	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	13.67	1637	13.36	1600
	By wt	By vol	By wt	By vol
Total Volatiles	18.6%	36.5%	20.7%	39.5%
Federally exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
Organic Volatiles	18.6%	36.4%	20.7%	39.4%
Percent Non-Volatile	81.4%	63.5%	79.3%	60.5%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.53	304	2.75	330
Less exempt solvents	2.54	304	2.76	330
Of solids	3.99	478	4.55	546
Of solids	0.22 lb/lb	0.22 kg/kg	0.26 lb/lb	0.26 kg/kg
	By wt		By wt	
By wt LVP-VOC	18.6%		20.7%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **1.03**

AS MIXED Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **1.18**

Volatile Organic Compounds - California

	B50AV8431		AS MIXED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	13.67	1637	13.36	1600
	By wt	By vol	By wt	By vol
Total Volatiles	18.6%	36.5%	20.7%	39.5%
Exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
Organic Volatiles	18.6%	36.5%	20.7%	39.5%
Percent Non-Volatile	81.4%	63.5%	79.3%	60.5%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.54	305	2.76	331
Less exempt solvents	2.54	305	2.76	331
Of solids	4.00	480	4.57	547
Of solids	0.22 lb/lb	0.22 kg/kg	0.26 lb/lb	0.26 kg/kg
	By wt		By wt	
By wt LVP-VOC	18.6%		20.7%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **1.01**

AS MIXED Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **1.16**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	B50AV8431		AS MIXED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	13.67	1637	13.36	1600
	By wt	By vol	By wt	By vol
Total Volatiles	18.6%	36.5%	20.7%	39.5%
Exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
Organic Volatiles	18.6%	36.4%	20.7%	39.4%
Percent Non-Volatile	81.4%	63.5%	79.3%	60.5%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.53	304	2.75	330
Less exempt solvents	2.54	304	2.76	330
Of solids	3.99	478	4.55	546
Of solids	0.22 lb/lb	0.22 kg/kg	0.26 lb/lb	0.26 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	B50AV8431		AS MIXED	
	By wt	By vol	By wt	By vol
Total Volatiles	18.6%	36.5%	20.7%	39.5%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.54	305	2.76	331

Volatile Organic Compounds - EU Directive 2010/75/EU

	B50AV8431		AS MIXED	
	By wt	By vol	By wt	By vol
Total Volatiles	18.6%	36.4%	20.7%	39.4%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.53	304	2.75	330

Volatile Organic Compounds - Mexico

	B50AV8431		AS MIXED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	13.67	1637	13.36	1600
	By wt	By vol	By wt	By vol
Total Volatiles	18.6%	36.5%	20.7%	39.5%
Exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
Organic Volatiles	18.6%	36.5%	20.7%	39.5%
Percent Non-Volatile	81.4%	63.5%	79.3%	60.5%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.54	305	2.76	331
Less exempt solvents	2.54	305	2.76	331
Of solids	4.00	480	4.57	547
Of solids	0.22 lb/lb	0.22 kg/kg	0.26 lb/lb	0.26 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	B50AV8431		AS MIXED	
	LB/Gal	kg/L	LB/Gal	kg/L
Volatile HAPS	0.66	0.079	0.96	0.116
Of solids	1.03	0.124	1.60	0.191
Of solids	0.05 lb/lb	0.05 kg/kg	0.09 lb/lb	0.09 kg/kg

Air Quality Data

Density of Organic Solvent Blend

6.99 lb/gal

Photochemically Reactive

Yes

Density of Organic Solvent Blend AS MIXED

7.01 lb/gal

Photochemically Reactive AS MIXED

Yes

Waste Disposal

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

SAFETY DATA SHEET

B50AV8431

Section 1. Identification

Product name : STEEL SPEC™ Universal Primer
Gray

Product code : B50AV8431

Other means of identification : Not available.

Product type : Liquid.

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

Paint or paint related material.

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

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

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

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

Section 2. Hazards identification

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

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
ASPIRATION HAZARD - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3.9% (oral), 5.9% (dermal), 5.7% (inhalation)

GHS label elements

Hazard pictograms :



Signal word : Danger

Date of issue/Date of revision : 1/22/2024

Date of previous issue : 11/1/2023

Version : 33

1/24

B50AV8431 STEEL SPEC™ Universal Primer
Gray

SHW-85-NA-GHS-US

Section 2. Hazards identification

Hazard statements

- : Flammable liquid and vapor.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause cancer.
- May damage fertility or the unborn child.
- Causes damage to organs through prolonged or repeated exposure. (lungs)

Precautionary statements

Prevention

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

- : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

- : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal

- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified

- : DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Calcium Carbonate	≥25 - ≤50	1317-65-3
Wollastonite	≥10 - ≤25	13983-17-0
Talc	≤10	14807-96-6
Light Aliphatic Hydrocarbon	≤5	64742-47-8
Light Aromatic Hydrocarbons	≤5	64742-95-6
Xylene, mixed isomers	≤5	1330-20-7
Titanium Dioxide	≤3	13463-67-7
trimethylbenzene	≤3	25551-13-7
Methyl n-Propyl Ketone	≤3	107-87-9
1,3,5-Trimethylbenzene	<1	108-67-8
1,2,4-Trimethylbenzene	<1	95-63-6
Ethylbenzene	<1	100-41-4
Methyl Isobutyl Ketone	<1	108-10-1
Cumene	≤0.3	98-82-8
1,2,3-Trimethylbenzene	≤0.3	526-73-8
Methyl Ethyl Ketoxime	≤0.3	96-29-7
Crystalline Silica, respirable powder	≤0.3	14808-60-7
Cobalt 2-Ethylhexanoate	≤0.3	136-52-7

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

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

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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

Unsuitable extinguishing media : Do not use water jet.

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

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

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

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

Remark : Flammable liquid.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

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

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

Methods and materials for containment and cleaning up

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

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

Section 6. Accidental release measures

same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

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

Conditions for safe storage, including any incompatibilities

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Calcium Carbonate	1317-65-3	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust NIOSH REL (United States, 10/2020). [calcium carbonate] TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total
Wollastonite	13983-17-0	ACGIH TLV (United States, 1/2023). TWA: 1 mg/m ³ 8 hours. Form: Inhalable fraction
Talc	14807-96-6	NIOSH REL (United States, 10/2020). TWA: 2 mg/m ³ 10 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction

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Light Aliphatic Hydrocarbon	64742-47-8	<p>ACGIH TLV (United States, 1/2023). [Kerosene as total hydrocarbon vapor] Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.</p>
Light Aromatic Hydrocarbons Xylene, mixed isomers	64742-95-6 1330-20-7	<p>None. OSHA PEL (United States, 5/2018). [Xylenes (o-, m-, p-isomers)] TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.</p>
Titanium Dioxide	13463-67-7	<p>OSHA PEL (United States, 5/2018). TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles</p>
trimethylbenzene	25551-13-7	<p>ACGIH TLV (United States, 1/2023). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours.</p>
Methyl n-Propyl Ketone	107-87-9	<p>NIOSH REL (United States, 10/2020). TWA: 150 ppm 10 hours. TWA: 530 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 200 ppm 8 hours. TWA: 700 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). STEL: 150 ppm 15 minutes.</p>
1,3,5-Trimethylbenzene	108-67-8	<p>ACGIH TLV (United States, 1/2023). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours.</p>
1,2,4-Trimethylbenzene	95-63-6	<p>NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours. ACGIH TLV (United States, 1/2023). TWA: 10 ppm 8 hours.</p>
Ethylbenzene	100-41-4	<p>ACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 435 mg/m³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.</p>
Methyl Isobutyl Ketone	108-10-1	<p>ACGIH TLV (United States, 1/2023). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. NIOSH REL (United States, 10/2020).</p>

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Cumene	98-82-8	<p>TWA: 50 ppm 10 hours. TWA: 205 mg/m³ 10 hours. STEL: 75 ppm 15 minutes. STEL: 300 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 410 mg/m³ 8 hours.</p> <p>ACGIH TLV (United States, 1/2023). TWA: 5 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 50 ppm 10 hours. TWA: 245 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 245 mg/m³ 8 hours.</p>
1,2,3-Trimethylbenzene	526-73-8	<p>ACGIH TLV (United States, 1/2023). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours.</p>
Methyl Ethyl Ketoxime	96-29-7	<p>OARS WEEL (United States, 4/2022). Skin sensitizer.</p>
Crystalline Silica, respirable powder	14808-60-7	<p>TWA: 10 ppm 8 hours. OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO₂+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO₂+2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). [Silica, crystalline] TWA: 50 µg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2023). [Silica, crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE (AS RESPIRABLE DUST)] TWA: 0.05 mg/m³ 10 hours. Form: respirable dust</p>
Cobalt 2-Ethylhexanoate	136-52-7	<p>ACGIH TLV (United States, 1/2023). [cobalt and inorganic compounds as Co] Skin sensitizer. Inhalation sensitizer. TWA: 0.02 mg/m³, (as Co) 8 hours.</p>

Occupational exposure limits (Canada)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
talc (none asbestiform)	14807-96-6	<p>CA British Columbia Provincial (Canada, 6/2022). Notes: the value is for particulate matter containing no asbestos and less than 1% crystalline silica. TWA: 2 mg/m³ 8 hours. Form: Respirable</p> <p>CA Quebec Provincial (Canada, 6/2022). TWAEV: 2 mg/m³ 8 hours. Form: Respirable dust.</p> <p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable particulate</p> <p>CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter. TWA: 2 f/cc 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). TWA: 2 mg/m³ 8 hours. Form: respirable fraction</p>
Petroleum refining, hydrotreated light distillate	64742-47-8	<p>CA British Columbia Provincial (Canada, 6/2022). [Kerosene/Jet fuels as total hydrocarbon vapour] Absorbed through skin. Notes: Application restricted to conditions in which there are negligible aerosol exposures. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.</p> <p>CA Alberta Provincial (Canada, 6/2018). [Kerosene/Jet fuels as total hydrocarbon vapour] Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.</p> <p>CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.</p>
Xylene	1330-20-7	<p>CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene (o,m & p isomers)] 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours.</p> <p>CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m & p isomers)] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.</p> <p>CA Quebec Provincial (Canada, 6/2022). [Xylene (o-,m-,p- isomers)] TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes.</p> <p>CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes.</p>

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Trimethylbenzene	25551-13-7	<p>TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Alberta Provincial (Canada, 6/2018). [Trimethyl benzene (mixed isomers)] 8 hrs OEL: 123 mg/m³ 8 hours. 8 hrs OEL: 25 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Trimethyl benzene (mixture of isomers)] Skin sensitizer. Inhalation sensitizer. TWAEV: 25 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Trimethyl benzene mixed isomer] STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.</p>
Methyl propyl ketone	107-87-9	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 200 ppm 8 hours. 15 min OEL: 250 ppm 15 minutes. 8 hrs OEL: 705 mg/m³ 8 hours. 15 min OEL: 881 mg/m³ 15 minutes. CA British Columbia Provincial (Canada, 6/2022). TWA: 150 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2022). TWAEV: 150 ppm 8 hours. TWAEV: 530 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.</p>
Ethylbenzene	100-41-4	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 8 hrs OEL: 434 mg/m³ 8 hours. 15 min OEL: 543 mg/m³ 15 minutes. 15 min OEL: 125 ppm 15 minutes. CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes.</p>

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Methyl isobutyl ketone	108-10-1	<p>TWA: 100 ppm 8 hours. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 205 mg/m³ 8 hours. 8 hrs OEL: 50 ppm 8 hours. 15 min OEL: 75 ppm 15 minutes. 15 min OEL: 307 mg/m³ 15 minutes. CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2022). TWAEV: 20 ppm 8 hours. STEV: 75 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 75 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
Cumene	98-82-8	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 246 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 25 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 50 ppm 8 hours. TWAEV: 246 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 74 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
Methyl Ethyl Ketoxime	96-29-7	<p>OARS WEEL (United States, 4/2022). Skin sensitizer.</p>
Quartz	14808-60-7	<p>TWA: 10 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable] TWA: 0.025 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz] TWAEV: 0.1 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013).</p>

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Cobalt 2-Ethylhexanoate	136-52-7	<p>TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction</p> <p>CA British Columbia Provincial (Canada, 6/2022). [cobalt and inorganic compounds as Co, Inhalable] Skin sensitizer. Inhalation sensitizer. Notes: No British Columbia exposure limit at this time</p> <p>CA British Columbia Provincial (Canada, 6/2022). [Cobalt and inorganic compounds as Co, Total] Skin sensitizer. Inhalation sensitizer.</p> <p>TWA: 0.02 mg/m³, (as Co, Total) 8 hours. CA Quebec Provincial (Canada, 6/2022). [Cobalt elemental, and inorganic compounds] Skin sensitizer. Inhalation sensitizer.</p> <p>TWAEV: 0.02 mg/m³, (as Co) 8 hours. CA Ontario Provincial (Canada, 6/2019). [Cobalt and inorganic compounds as Co]</p> <p>TWA: 0.02 mg/m³, (as Co) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Cobalt and inorganic compounds as Co]</p> <p>STEL: 0.06 mg/m³, (measured as Co) 15 minutes.</p> <p>TWA: 0.02 mg/m³, (measured as Co) 8 hours.</p>
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Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Light Aliphatic Hydrocarbon	64742-47-8	ACGIH TLV (United States, 1/2023). [Kerosene as total hydrocarbon vapor] Absorbed through skin.
Xylene, mixed isomers	1330-20-7	<p>TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.</p> <p>NOM-010-STPS-2014 (Mexico, 4/2016). [Xylenes (mixed)]</p> <p>STEL: 150 ppm 15 minutes.</p> <p>TWA: 100 ppm 8 hours.</p>
trimethylbenzene	25551-13-7	<p>NOM-010-STPS-2014 (Mexico, 4/2016). [Trimethyl benzene, mixed isomers]</p> <p>TWA: 25 ppm 8 hours.</p>
Methyl n-Propyl Ketone	107-87-9	<p>NOM-010-STPS-2014 (Mexico, 4/2016).</p> <p>STEL: 150 ppm 15 minutes.</p>
Methyl Isobutyl Ketone	108-10-1	<p>NOM-010-STPS-2014 (Mexico, 4/2016).</p> <p>TWA: 50 ppm 8 hours.</p> <p>STEL: 75 ppm 15 minutes.</p>
Cumene	98-82-8	<p>NOM-010-STPS-2014 (Mexico, 4/2016).</p> <p>TWA: 50 ppm 8 hours.</p>
Cobalt 2-Ethylhexanoate	136-52-7	<p>NOM-010-STPS-2014 (Mexico, 4/2016). [Cobalt and inorganic compounds]</p> <p>TWA: 0.02 mg/m³, (as Co) 8 hours.</p>

Biological exposure indices (United States)

Section 8. Exposure controls/personal protection

Ingredient name	Exposure indices
Xylene, mixed isomers	ACGIH BEI (United States, 1/2023) [xylenes (technical or commercial grade)] BEI: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	ACGIH BEI (United States, 1/2023) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Methyl Isobutyl Ketone	ACGIH BEI (United States, 1/2023) BEI: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.
Cobalt 2-Ethylhexanoate	ACGIH BEI (United States, 1/2023) [cobalt and inorganic compounds including cobalt oxides] BEI: 15 µg/l, not combined with tungsten carbide - cobalt [in urine]. Sampling time: end of shift at end of workweek. BEI: Nonquantitative: Biological monitoring should be considered for this compound based on the review; however, a specific BEI® could not be determined due to insufficient data., cobalt with tungsten carbide - cobalt [in urine]. Sampling time: end of shift at end of workweek.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name	Exposure indices
Xylene, mixed isomers	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [xylenes (technical or commercial grade)] BEI: 1.5 g/g creatinine, methyl hippuric acids [in urine]. Sampling time: at the end of the work shift.
Methyl Isobutyl Ketone	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 2 mg/L, MIBK [in urine]. Sampling time: at the end of the work shift.
Cobalt 2-Ethylhexanoate	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical

Date of issue/Date of revision : 1/22/2024

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substances. (Mexico, 6/2012) [cobalt and its compounds]

BEI: 1 µg/l [Basal level. The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; semi-quantitative. The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible.], cobalt [in blood]. Sampling time: at the end of the shift at the end of the work week.

BEI: 15 µg/l [Basal level. The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], cobalt [in urine]. Sampling time: at the end of the shift at the end of the work week.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Hand protection

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

Date of issue/Date of revision

: 1/22/2024

Date of previous issue

: 11/1/2023

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Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

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

Appearance

- Physical state** : Liquid.
- Color** : Gray.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 102°C (215.6°F)
- Flash point** : Closed cup: 43°C (109.4°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 2.3 (butyl acetate = 1)
- Flammability** : Flammable liquid.
- Lower and upper explosion limit/flammability limit** : Lower: 0.7%
Upper: 8.7%
- Vapor pressure** : 3.7 kPa (27.8 mm Hg)
- Relative vapor density** : 3.45 [Air = 1]
- Relative density** : 1.64
- Solubility(ies)** :

Media	Result
cold water	Not soluble

- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)
- Molecular weight** : Not applicable.
- Heat of combustion** : 9.302 kJ/g

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
- Incompatible materials** : Reactive or incompatible with the following materials:
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Light Aromatic Hydrocarbons Xylene, mixed isomers	LD50 Oral	Rat	8400 mg/kg	-
	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
trimethylbenzene	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Oral	Rat	8970 mg/kg	-
Methyl n-Propyl Ketone	LD50 Dermal	Rabbit	6500 mg/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	-
	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
Cumene	LD50 Oral	Rat	1400 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
Methyl Ethyl Ketoxime	LD50 Oral	Rat	930 mg/kg	-
	LD50 Dermal	Rabbit	>5 g/kg	-
Cobalt 2-Ethylhexanoate	LD50 Oral	Rat	1.22 g/kg	-
	LD50 Oral	Rat	1.22 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Talc	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
	Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg
Eyes - Severe irritant		Rabbit	-	24 hours 5 mg	-
Skin - Mild irritant	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Section 11. Toxicological information

Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Methyl n-Propyl Ketone	Skin - Mild irritant	Rabbit	-	405 mg	-
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
Methyl Ethyl Ketoxime	Eyes - Severe irritant	Rabbit	-	100 uL	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Wollastonite	-	3	-
Talc	-	3	-
Xylene, mixed isomers	-	3	-
Titanium Dioxide	-	2B	-
Ethylbenzene	-	2B	-
Methyl Isobutyl Ketone	-	2B	-
Cumene	-	2B	-
Crystalline Silica, respirable powder	+	1	Reasonably anticipated to be a human carcinogen. Known to be a human carcinogen.
Cobalt 2-Ethylhexanoate	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Calcium Carbonate	Category 3	-	Respiratory tract irritation
Light Aliphatic Hydrocarbon	Category 3	-	Respiratory tract irritation
Light Aromatic Hydrocarbons	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Xylene, mixed isomers	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Methyl n-Propyl Ketone	Category 3	-	Respiratory tract irritation
1,3,5-Trimethylbenzene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Ethylbenzene	Category 3	-	Respiratory tract irritation
Methyl Isobutyl Ketone	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Cumene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Methyl Ethyl Ketoxime	Category 1 Category 3	-	upper respiratory tract Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Talc	Category 1	inhalation	lungs
Light Aliphatic Hydrocarbon	Category 2	-	-
Light Aromatic Hydrocarbons	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
Methyl n-Propyl Ketone	Category 2	-	-
Ethylbenzene	Category 2	-	-
Methyl Isobutyl Ketone	Category 2	-	-
Methyl Ethyl Ketoxime	Category 2	-	blood system
Crystalline Silica, respirable powder	Category 1	inhalation	-

Aspiration hazard

Name	Result
Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1

Date of issue/Date of revision : 1/22/2024

Date of previous issue : 11/1/2023

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Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : May cause respiratory irritation.
Skin contact : Causes skin irritation. May cause an allergic skin reaction.
Ingestion : May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : May damage fertility.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	17123.57 mg/kg
Dermal	30580.35 mg/kg
Inhalation (gases)	186262.15 ppm
Inhalation (vapors)	559.31 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Light Aliphatic Hydrocarbon Xylene, mixed isomers	Acute LC50 2200 µg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	4 days
	Acute LC50 8500 µg/l Marine water	Crustaceans - <i>Palaemonetes pugio</i>	48 hours
Titanium Dioxide trimethylbenzene	Acute LC50 13400 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute LC50 >1000000 µg/l Marine water	Fish - <i>Fundulus heteroclitus</i>	96 hours
	Acute LC50 5600 µg/l Marine water	Crustaceans - <i>Palaemonetes pugio</i>	48 hours
Methyl n-Propyl Ketone 1,3,5-Trimethylbenzene	Acute LC50 1240000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute LC50 13000 µg/l Marine water	Crustaceans - <i>Cancer magister</i> - Zoea	48 hours
1,2,4-Trimethylbenzene	Acute LC50 12520 µg/l Fresh water	Fish - <i>Carassius auratus</i>	96 hours
	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Acute LC50 4910 µg/l Marine water	Crustaceans - <i>Elasmopus pecteniscrus</i> - Adult	48 hours
Ethylbenzene	Acute LC50 7720 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute EC50 4900 µg/l Marine water	Algae - <i>Skeletonema costatum</i>	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - <i>Skeletonema costatum</i>	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
Methyl Isobutyl Ketone	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 505000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Cumene	Chronic NOEC 78 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	33 days
	Acute EC50 7.4 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
Methyl Ethyl Ketoxime	Acute LC50 2700 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 843000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Light Aromatic Hydrocarbons	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Ethylbenzene	-	-	Readily
Methyl Isobutyl Ketone	-	-	Readily

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: 1/22/2024

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: 11/1/2023

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Light Aromatic Hydrocarbons	-	10 to 2500	High
Xylene, mixed isomers	-	8.1 to 25.9	Low
1,3,5-Trimethylbenzene	-	161	Low
1,2,4-Trimethylbenzene	-	243	Low
Cumene	-	35.48	Low
1,2,3-Trimethylbenzene	-	194.98	Low
Methyl Ethyl Ketoxime	-	2.5 to 5.8	Low
Cobalt 2-Ethylhexanoate	-	15600	High

Mobility in soil






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

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

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3 	3 	3 	3 	3 
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	No.

Date of issue/Date of revision : 1/22/2024

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Section 14. Transport information

<p>Additional information</p>	<p>This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.</p> <p>ERG No. 128</p>	<p>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).</p> <p>ERG No. 128</p>	<p>-</p> <p>ERG No. 128</p>		<p>Emergency schedules F-E, S-E</p>
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Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

SARA 313

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

California Prop. 65

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

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 15. Regulatory information

International lists

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

Section 16. Other information

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

Health	*	3
Flammability		2
Physical hazards		0

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

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

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

History

Date of printing : 1/22/2024

Date of issue/Date of revision : 1/22/2024

Date of previous issue : 11/1/2023

Version : 33

Key to abbreviations : ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

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Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

✔ Indicates information that has changed from previously issued version.

Notice to reader

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

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