

# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2023.

Date of issue/Date of revision 3 February 2026

Version 10

## Section 1. Identification

**Product name** : SIGMA SHIELD 420 BASE REDBROWN 6179  
**Product code** : 00226479  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

**Product use** : Professional applications, Used by spraying.  
**Use of the substance/ mixture** : Coating.  
**Uses advised against** : Not applicable.

**Supplier** : PPG Canada Inc.  
5676 Timberlea Blvd  
Mississauga ON L4W 4M6  
Canada  
+1 905-629-7999

PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272

**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
SETIQ Interior de la República: 800-00-214-00 (México)  
SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number** : 888-977-4762

## Section 2. Hazard identification

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 1A  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
 Health Hazards Not Otherwise Classified - Category 1

### GHS label elements

**Hazard pictograms** :



## Section 2. Hazard identification

Signal word	: Danger
Hazard statements	: Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (hearing organs) Prolonged or repeated contact may dry skin and cause irritation.
<b><u>Precautionary statements</u></b>	
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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 31.1% (oral), 63.6% (dermal), 53% (inhalation)

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMA SHIELD 420 BASE REDBROWN 6179
Other means of identification	: Not available.

## CAS number/other identifiers

### Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
crystalline silica, respirable powder (<10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica-Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	10 - 30*	14808-60-7
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	reaction product: bisphenol-A-(epichlorohydrin); epoxy resin; epoxy resin; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane; phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, (chloromethyl)-, polymer with 4,4'-(1-methylethylidene)bis[phenol]; Bisphenol A, epichlorohydrin polymer; Epichlorohydrin, bisphenol A resin; poly{(4,4'-propane-2,2-diylidiphenol)-co-[2-(chloromethyl)oxirane]}; BADGE; DGEBPA; diglycidyl ether of bis-phenol A; bisphenol A diglycidyl ether resin; (bisphenol A)-epichlorohydrin copolymer	10 - 30*	25068-38-6
Talc , not containing asbestiform fibres	Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	7 - 13*	14807-96-6
xylene	Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); Benzene, dimethyl-; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene	5 - 10*	1330-20-7
diiron trioxide	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ); Iron oxide; C.I. Pigment Red 101; Ferric oxide; Iron oxide, anhydrous; Iron oxide, red; Iron sesquioxide; Iron trioxide; iron oxide pigment; Iron oxide dust and fume (as Fe); Rouge	3 - 7*	1309-37-1
Phenol, methylstyrenated	Methylstyrenated phenol; 4-(alpha,alpha-dimethylbenzyl) phenol; Isopropenylbenzene	1 - 5*	68512-30-1
ethylbenzene	Benzene, ethyl-; Phenylethane;	0.5 - 1.5*	100-41-4

### Section 3. Composition/information on ingredients

	Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropoxy carbonyl, chloropropoxy carbonyl) benzene		
1-methoxy-2-propanol	monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy-2-hydroxypropane; 2-Methoxy-1-methylethanol; PGME; mixture containing by weight: — 69 % or more but not more than 71 % of 1-methoxypropan-2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy-1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol	0.5 - 1.5*	107-98-2
2-methylpropan-1-ol	iso-butanol; 1-Propanol, 2-methyl-; Isobutyl alcohol; Isobutanol; 2-Methyl-1-propanol; Isopropylcarbinol; IBA; i-Butyl alcohol; catalyst consisting predominantly of dinonylnaphthalenedisulphonic acid in the form of a solution in isobutanol; Isobutyl alcohol (I,T); 1-Propanol, 2-methyl- (I,T)	0.5 - 1.5*	78-83-1

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

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

### Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

##### **Eye contact**

- : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

##### **Inhalation**

- : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

## Section 4. First-aid measures

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** :  No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

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

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking

**Ingestion** : No specific data.

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

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

**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, CO<sub>2</sub>, 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.

## Section 5. Fire-fighting measures

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
halogenated compounds  
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.

## 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 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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

**Special precautions** : Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

**Advice on general occupational hygiene** : Wash hands thoroughly after handling. 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 between the following temperatures: 0 to 35°C (32 to 95°F). 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Crystalline silica, respirable powder (<10 microns)	<p><b>CA Alberta Provincial (Canada, 3/2023)</b> OEL 8 hours: 0.025 mg/m<sup>3</sup>. Form: respirable particulate.</p> <p><b>CA British Columbia Provincial (Canada, 3/2025) [silica, crystalline - alpha quartz and cristobalite]</b> TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form: respirable.</p> <p><b>CA Ontario Provincial (Canada, 6/2019) [Silica, Crystalline (Quartz/Tripoli)]</b> TWA 8 hours: 0.1 mg/m<sup>3</sup>. Form: respirable particulate matter.</p>

## Section 8. Exposure controls/personal protection

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin  
Talc , not containing asbestos fibers

xylene

diiron trioxide

**CA Quebec Provincial (Canada, 2/2024)**  
**[Silica Crystalline -Quartz]**

TWAEV 8 hours: 0.1 mg/m<sup>3</sup>. Form: respirable aerosol fraction.

**CA Saskatchewan Provincial (Canada, 4/2021)**

TWA 8 hours: 0.05 mg/m<sup>3</sup>. Form: respirable fraction.

None.

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 2 mg/m<sup>3</sup>. Form: respirable particulate.

**CA British Columbia Provincial (Canada, 3/2025)**

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: respirable.

**CA Quebec Provincial (Canada, 2/2024)**

TWAEV 8 hours: 2 mg/m<sup>3</sup>. Form: respirable aerosol fraction.

**CA Saskatchewan Provincial (Canada, 4/2021)**

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: respirable fraction.

**CA Alberta Provincial (Canada, 3/2023)**  
**[Dimethylbenzene]**

OEL 8 hours: 100 ppm.

OEL 15 minutes: 651 mg/m<sup>3</sup>.

OEL 15 minutes: 150 ppm.

OEL 8 hours: 434 mg/m<sup>3</sup>.

**CA British Columbia Provincial (Canada, 3/2025) [xylene (o, m & p isomers)]**

TWA 8 hours: 100 ppm.

STEL 15 minutes: 150 ppm.

**CA Ontario Provincial (Canada, 6/2019)**  
**[Xylene (o-, m-, p-isomers)]**

STEL 15 minutes: 150 ppm.

TWA 8 hours: 100 ppm.

**CA Quebec Provincial (Canada, 2/2024)**  
**[Xylene]**

TWAEV 8 hours: 100 ppm.

TWAEV 8 hours: 434 mg/m<sup>3</sup>.

STEV 15 minutes: 150 ppm.

STEV 15 minutes: 651 mg/m<sup>3</sup>.

**CA Saskatchewan Provincial (Canada, 4/2021) [Xylene]**

STEL 15 minutes: 150 ppm.

TWA 8 hours: 100 ppm.

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 5 mg/m<sup>3</sup>. Form: respirable.

**CA British Columbia Provincial (Canada, 3/2025)**

TWA 8 hours: 10 mg/m<sup>3</sup>. Form: total dust.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: respirable particulate matter.

**CA Quebec Provincial (Canada, 2/2024)**

## Section 8. Exposure controls/personal protection

Phenol, methylstyrenated ethylbenzene

TWAEV 8 hours: 5 mg/m<sup>3</sup> (as Fe). Form: dust and fume.

**CA Saskatchewan Provincial (Canada, 4/2021)**

STEL 15 minutes: 10 mg/m<sup>3</sup> (measured as Fe). Form: dust and fume.

TWA 8 hours: 5 mg/m<sup>3</sup> (measured as Fe). Form: dust and fume.

None.

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 100 ppm.

OEL 8 hours: 434 mg/m<sup>3</sup>.

OEL 15 minutes: 543 mg/m<sup>3</sup>.

OEL 15 minutes: 125 ppm.

**CA British Columbia Provincial (Canada, 3/2025)**

TWA 8 hours: 20 ppm.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 20 ppm.

**CA Quebec Provincial (Canada, 2/2024)**

TWAEV 8 hours: 20 ppm.

**CA Saskatchewan Provincial (Canada, 4/2021)**

STEL 15 minutes: 125 ppm.

TWA 8 hours: 100 ppm.

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 100 ppm.

OEL 15 minutes: 553 mg/m<sup>3</sup>.

OEL 8 hours: 369 mg/m<sup>3</sup>.

OEL 15 minutes: 150 ppm.

**CA British Columbia Provincial (Canada, 3/2025)**

STEL 15 minutes: 100 ppm.

TWA 8 hours: 50 ppm.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 50 ppm.

STEL 15 minutes: 100 ppm.

**CA Quebec Provincial (Canada, 2/2024)**

TWAEV 8 hours: 50 ppm.

STEV 15 minutes: 100 ppm.

**CA Saskatchewan Provincial (Canada, 4/2021)**

STEL 15 minutes: 150 ppm.

TWA 8 hours: 100 ppm.

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 50 ppm.

OEL 8 hours: 152 mg/m<sup>3</sup>.

**CA British Columbia Provincial (Canada, 3/2025)**

TWA 8 hours: 50 ppm.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 50 ppm.

**CA Quebec Provincial (Canada, 2/2024)**

TWAEV 8 hours: 50 ppm.

1-methoxy-2-propanol

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 100 ppm.

OEL 15 minutes: 553 mg/m<sup>3</sup>.

OEL 8 hours: 369 mg/m<sup>3</sup>.

OEL 15 minutes: 150 ppm.

**CA British Columbia Provincial (Canada, 3/2025)**

STEL 15 minutes: 100 ppm.

TWA 8 hours: 50 ppm.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 50 ppm.

STEL 15 minutes: 100 ppm.

**CA Quebec Provincial (Canada, 2/2024)**

TWAEV 8 hours: 50 ppm.

STEV 15 minutes: 100 ppm.

**CA Saskatchewan Provincial (Canada, 4/2021)**

STEL 15 minutes: 150 ppm.

TWA 8 hours: 100 ppm.

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 50 ppm.

OEL 8 hours: 152 mg/m<sup>3</sup>.

**CA British Columbia Provincial (Canada, 3/2025)**

TWA 8 hours: 50 ppm.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 50 ppm.

**CA Quebec Provincial (Canada, 2/2024)**

TWAEV 8 hours: 50 ppm.

2-methylpropan-1-ol

## Section 8. Exposure controls/personal protection

TWAEV 8 hours: 152 mg/m<sup>3</sup>.  
**CA Saskatchewan Provincial (Canada, 4/2021)**  
STEL 15 minutes: 60 ppm.  
TWA 8 hours: 50 ppm.

Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**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** : 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.

#### **Gloves**

**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.

## Section 8. Exposure controls/personal protection

**Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid.  
**Color** : Brownish-red.  
**Odor** : Characteristic.  
**pH** : Not applicable.  
**Melting point** : Not available.  
**Boiling point** : >37.78°C (>100°F)  
**Flash point** : Closed cup: 26°C (78.8°F)  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : Not available.  
**Flammability** : Not available.  
**Lower and upper explosive (flammable) limits** : Not available.

**Vapor pressure** : Not available.

**Vapor density** : Not available.

**Relative density** : 1.5

**Density ( lbs / gal )** : 12.52

	Media	Result
<b>Solubility(ies)</b>	cold water	Not soluble

**Partition coefficient: n-octanol/water** : Not applicable.

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

**% Solid. (w/w)** : 89.144

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

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

**Chemical stability** : The product is stable.

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

## Section 10. Stability and reactivity

Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Dose
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	Rat - Oral - LD50	>2 g/kg
xylene	Rabbit - Dermal - LD50	>2 g/kg
	Rat - Oral - LD50	4.3 g/kg
diiron trioxide	Rabbit - Dermal - LD50	1.7 g/kg
	Rat - Oral - LD50	10 g/kg
	Rat - Inhalation - LC50 Dusts and mists	>5 mg/l [4 hours]
Phenol, methylstyrenated	Rat - Oral - LD50	>2000 mg/kg
	Rabbit - Dermal - LD50	>2000 mg/kg
ethylbenzene	Rat - Oral - LD50	3.5 g/kg
	Rabbit - Dermal - LD50	17.8 g/kg
1-methoxy-2-propanol	Rat - Inhalation - LC50 Vapor	17.8 mg/l [4 hours]
	Rabbit - Dermal - LD50	13 g/kg
	Rat - Oral - LD50	5.2 g/kg
2-methylpropan-1-ol	Rat - Inhalation - LC50 Vapor	>7000 ppm [6 hours]
	Rat - Oral - LD50	2830 mg/kg
	Rabbit - Dermal - LD50	2460 mg/kg
	Rat - Inhalation - LC50 Vapor	24.6 mg/l [4 hours]

**Product Conclusion** : There are no data available on the mixture itself.

#### Skin corrosion/irritation

Product/ingredient name	Species	Dose	Score
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	Rabbit - Skin - Moderate irritant	-	-
	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 500 UI	-
	Rabbit - Skin - Severe irritant	Duration of treatment/exposure: 24 hours	-
xylene	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 2 mg	-
		Duration of treatment/exposure: 24 hours	-
		Amount/concentration applied: 500 mg	-
		Duration of treatment/exposure: 24 hours	-

**Conclusion/Summary** : There are no data available on the mixture itself.

## Section 11. Toxicological information

### Serious eye damage/eye irritation

Product/ingredient name	Species	Dose	Score
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	Rabbit - Eyes - Moderate irritant	-	-
	Rabbit - Eyes - Mild irritant	Amount/concentration applied: 100 mg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

### Respiratory corrosion/irritation

**Conclusion/Summary** : There are no data available on the mixture itself.

### Sensitization

Product/ingredient name	Species	Result
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	Mouse - skin OECD 429	Result: Sensitizing

### Skin

**Conclusion/Summary** : There are no data available on the mixture itself.

### Respiratory

**Conclusion/Summary** : There are no data available on the mixture itself.

### Mutagenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Classification

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a human carcinogen.
Talc , not containing asbestiform fibres	-	2A	-
xylene	-	3	-
diiron trioxide	-	3	-
ethylbenzene	-	2B	-

### Carcinogen Classification

IARC: 1, 2A, 2B, 3, 4

code: NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Talc , not containing asbestiform fibres	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
xylene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1-methoxy-2-propanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-methylpropan-1-ol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

## Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
crystalline silica, respirable powder (<10 microns) ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

<u>Target organs</u>	<p>: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow.</p> <p>Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, heart, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.</p>
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### Aspiration hazard

Product/ingredient name	Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

#### Potential acute health effects

<b>Eye contact</b>	: Causes serious eye irritation.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Skin contact</b>	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
<b>Ingestion</b>	: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation redness dryness cracking
<b>Ingestion</b>	: No specific data.

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

<b>Conclusion/Summary</b>	: There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects
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## Section 11. Toxicological information

and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Long term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Potential chronic health effects

**Conclusion/Summary** : There are no data available on the mixture itself.

**General** : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. 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.

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMA SHIELD 420 BASE REDBROWN 6179	5528.4	2476.9	N/A	64.7	8.3
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	2500	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	Chronic - NOEC 0.3 mg/l [21 days] Acute - EC50 OECD 202 >100 mg/l [48 hours]	Daphnia
diiron trioxide	Acute - EC50 - Fresh water 1.8 mg/l [48 hours]	Daphnia
ethylbenzene	Chronic - NOEC - Fresh water 1 mg/l Acute - LC50 - Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>
1-methoxy-2-propanol		Fish - Goldfish

## Section 12. Ecological information

2-methylpropan-1-ol	<p>&gt;4500 mg/l [96 hours]            Acute - LC50            23300 mg/l [48 hours]            Acute - EC50            1100 mg/l [48 hours]</p>	<p>Daphnia - Daphnia            Daphnia</p>
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**Conclusion/Summary** : Not available.

### Persistence and degradability

Product/ingredient name	Result
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin ethylbenzene	OECD 301F 5% [28 days] 79% [10 days] - Readily

**Conclusion/Summary** : Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	2.64 to 3.78	31	Low
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
ethylbenzene	3.6	79.43	Low
1-methoxy-2-propanol	<1	-	Low
2-methylpropan-1-ol	1	-	Low

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

## 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.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

## Section 13. Disposal considerations

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## Section 14. Transport information

	TDG	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

### Additional information

TDG : None identified.

IMDG : None identified.

IATA : None identified.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Proof of classification statement** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

## Section 15. Regulatory information

### National Inventory List

Canada inventory ( DSL ) : All components are listed or exempted.

## Section 16. Other information

Please refer to Section 2 of this document for GHS hazard classifications.

The customer is responsible for determining the PPE code for this material.

Date of issue/Date of revision 3 February 2026

Organization that prepared the SDS : EHS

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

## Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

☒ Indicates information that has changed from previously issued version.

### Disclaimer

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