

# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 29 July 2021

Version 18.03

## Section 1. Identification

Product name : 2.1 EPOXY PRIMER - BLACK

Product code : DP90LV

Other means of identification : Not available.

Product type : Liquid.

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

Product use : Industrial applications.

Use of the substance/mixture : Coating. Paints. Painting-related materials.

Uses advised against : Not applicable.

Supplier : PPG Canada Inc.  
2301 Royal Windsor Drive  
Mississauga, ON L5J 1K5  
Canada  
+1 888-310-4762

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 : 1-800-647-6050

## Section 2. Hazard identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2  
SKIN IRRITATION - Category 2  
SERIOUS EYE DAMAGE - Category 1  
SKIN SENSITIZATION - Category 1B  
CARCINOGENICITY - Category 1  
Health Hazards Not Otherwise Classified - Category 1

### GHS label elements

Hazard pictograms :



## Section 2. Hazard identification

**Signal word** : Danger

**Hazard statements** : Highly flammable liquid and vapor.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause cancer.  
Prolonged or repeated contact may dry skin and cause irritation.

### 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. Avoid breathing vapor. 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 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. Immediately call a POISON CENTER or doctor.

**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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. 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: 17.4% (oral), 44.8% (dermal), 53.5% (inhalation)

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product name** : 2.1 EPOXY PRIMER - BLACK

**Other means of identification** : Not available.

CAS number/other identifiers

## Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
Epoxy Resin	Not available.	10 - 30*	25036-25-3
acetone	Not available.	7 - 13*	67-64-1
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Not available.	7 - 13*	1675-54-3
Talc, not containing asbestiform fibers	Not available.	7 - 13*	14807-96-6
barium sulfate	Not available.	5 - 10*	7727-43-7
Kaolin	Not available.	3 - 7*	1332-58-7
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	Not available.	1 - 5*	98-56-6
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Not available.	1 - 5*	2530-83-8
butanone	Not available.	1 - 5*	78-93-3
xylene	Not available.	1 - 5*	1330-20-7
3-butoxypropan-2-ol	Not available.	1 - 5*	5131-66-8
carbon black	Not available.	0.5 - 1.5*	1333-86-4
Isopropyl alcohol	Not available.	0.5 - 1.5*	67-63-0
ethylbenzene	Not available.	0.1 - 1*	100-41-4
crystalline silica, respirable powder (<10 microns)	Not available.	0.1 - 1*	14808-60-7

\*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** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- 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.
- 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 damage.
- 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

## Section 4. First-aid measures

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use 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** : Highly 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
sulfur oxides  
phosphorus oxides  
halogenated compounds  
carbonyl halides  
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. Do not breathe 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** : 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.

## Section 7. Handling and storage

### 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

: Do not store below the following temperature: 5°C (41°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
Epoxy Resin acetone	None. <b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 1200 mg/m <sup>3</sup> 8 hours. 15 min OEL: 1800 mg/m <sup>3</sup> 15 minutes. 8 hrs OEL: 500 ppm 8 hours. 15 min OEL: 750 ppm 15 minutes. <b>CA British Columbia Provincial (Canada, 1/2020).</b> TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. <b>CA Ontario Provincial (Canada, 6/2019).</b> TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. <b>CA Quebec Provincial (Canada, 7/2019).</b> TWAEV: 500 ppm 8 hours. TWAEV: 1190 mg/m <sup>3</sup> 8 hours. STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m <sup>3</sup> 15 minutes. <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours.
bis-[4-(2,3-epoxipropoxy)phenyl]propane Talc, not containing asbestiform fibers	None. <b>CA British Columbia Provincial (Canada, 1/2020).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable <b>CA Ontario Provincial (Canada).</b> TWA: 2 ppb Form: Respirable TWA: 2 mg/m <sup>3</sup> Form: Respirable <b>CA Quebec Provincial (Canada, 7/2019).</b> TWAEV: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable dust. <b>CA Alberta Provincial (Canada, 6/2018).</b>

## Section 8. Exposure controls/personal protection

barium sulfate

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

**CA Saskatchewan Provincial (Canada, 7/2013).**

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

**CA British Columbia Provincial (Canada, 1/2020).**

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable  
**CA Ontario Provincial (Canada, 6/2019).**

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

**CA Quebec Provincial (Canada, 7/2019).**

TWAEV: 5 mg/m<sup>3</sup> 8 hours. Form:  
Respirable dust.

TWAEV: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust.

**CA Alberta Provincial (Canada, 6/2018).**

8 hrs OEL: 10 mg/m<sup>3</sup> 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 20 mg/m<sup>3</sup> 15 minutes.

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

**CA Alberta Provincial (Canada, 6/2018).**

8 hrs OEL: 2 mg/m<sup>3</sup> 8 hours. Form:  
Respirable

**CA British Columbia Provincial (Canada, 1/2020).**

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

**CA Quebec Provincial (Canada, 7/2019).**

TWAEV: 5 mg/m<sup>3</sup> 8 hours. Form:  
Respirable dust.

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

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate matter.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 4 mg/m<sup>3</sup> 15 minutes. Form:  
respirable fraction

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

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene

**IPEL (-).**

TWA: 0.57 ppm

STEL: 1.71 ppm

None.

**CA Alberta Provincial (Canada, 6/2018).**

15 min OEL: 885 mg/m<sup>3</sup> 15 minutes.

15 min OEL: 300 ppm 15 minutes.

8 hrs OEL: 200 ppm 8 hours.

8 hrs OEL: 590 mg/m<sup>3</sup> 8 hours.

**CA British Columbia Provincial (Canada, 1/2020).**

STEL: 100 ppm 15 minutes.

TWA: 50 ppm 8 hours.

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane butanone



## Section 8. Exposure controls/personal protection

xylene

STEL: 300 ppm 15 minutes.

TWA: 200 ppm 8 hours.

**CA Quebec Provincial (Canada, 7/2019).**STEV: 300 mg/m<sup>3</sup> 15 minutes.

STEV: 100 ppm 15 minutes.

TWAEV: 150 mg/m<sup>3</sup> 8 hours.

TWAEV: 50 ppm 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 300 ppm 15 minutes.

TWA: 200 ppm 8 hours.

**CA Alberta Provincial (Canada, 6/2018).**15 min OEL: 651 mg/m<sup>3</sup> 15 minutes.

15 min OEL: 150 ppm 15 minutes.

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

8 hrs OEL: 100 ppm 8 hours.

**CA British Columbia Provincial (Canada, 1/2020).**

STEL: 150 ppm 15 minutes.

TWA: 100 ppm 8 hours.

**CA Quebec Provincial (Canada, 7/2019).**STEV: 651 mg/m<sup>3</sup> 15 minutes.

STEV: 150 ppm 15 minutes.

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

TWAEV: 100 ppm 8 hours.

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

STEL: 150 ppm 15 minutes.

TWA: 100 ppm 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 150 ppm 15 minutes.

TWA: 100 ppm 8 hours.

3-butoxypropan-2-ol

**IPEL (-).**

TWA: 50 ppm

**CA British Columbia Provincial (Canada, 1/2020).**TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable**CA Ontario Provincial (Canada, 6/2019).**TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable particulate matter.**CA Alberta Provincial (Canada, 6/2018).**8 hrs OEL: 3.5 mg/m<sup>3</sup> 8 hours.**CA Quebec Provincial (Canada, 7/2019).**TWAEV: 3.5 mg/m<sup>3</sup> 8 hours.**CA Saskatchewan Provincial (Canada, 7/2013).**STEL: 7 mg/m<sup>3</sup> 15 minutes.TWA: 3.5 mg/m<sup>3</sup> 8 hours.

carbon black

**CA Alberta Provincial (Canada, 6/2018).**15 min OEL: 984 mg/m<sup>3</sup> 15 minutes.

8 hrs OEL: 200 ppm 8 hours.

15 min OEL: 400 ppm 15 minutes.

8 hrs OEL: 492 mg/m<sup>3</sup> 8 hours.**CA British Columbia Provincial (Canada,**

Isopropyl alcohol



## Section 8. Exposure controls/personal protection

ethylbenzene

1/2020).

TWA: 200 ppm 8 hours.

STEL: 400 ppm 15 minutes.

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

TWA: 200 ppm 8 hours.

STEL: 400 ppm 15 minutes.

**CA Quebec Provincial (Canada, 7/2019).**

TWAEV: 400 ppm 8 hours.

TWAEV: 983 mg/m<sup>3</sup> 8 hours.

STEV: 500 ppm 15 minutes.

STEV: 1230 mg/m<sup>3</sup> 15 minutes.**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 400 ppm 15 minutes.

TWA: 200 ppm 8 hours.

**CA Alberta Provincial (Canada, 6/2018).**15 min OEL: 543 mg/m<sup>3</sup> 15 minutes.

15 min OEL: 125 ppm 15 minutes.

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

8 hrs OEL: 100 ppm 8 hours.

**CA British Columbia Provincial (Canada, 1/2020).**

TWA: 20 ppm 8 hours.

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

TWA: 20 ppm 8 hours.

**CA Quebec Provincial (Canada, 7/2019).**STEV: 543 mg/m<sup>3</sup> 15 minutes.

STEV: 125 ppm 15 minutes.

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

TWAEV: 100 ppm 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 125 ppm 15 minutes.

TWA: 100 ppm 8 hours.

crystalline silica, respirable powder (&lt;10 microns)

**CA British Columbia Provincial (Canada, 1/2020).**TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form:

Respirable

**CA Ontario Provincial (Canada, 6/2019).**TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable**CA Quebec Provincial (Canada, 7/2019).**TWAEV: 0.1 mg/m<sup>3</sup> 8 hours. Form:

Respirable dust.

**CA Alberta Provincial (Canada, 6/2018).**8 hrs OEL: 0.025 mg/m<sup>3</sup> 8 hours. Form:

Respirable particulate

**CA Saskatchewan Provincial (Canada, 7/2013).**TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form:

respirable fraction

Consult local authorities for acceptable exposure limits.

## Section 8. Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 and face shield.

#### 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** : butyl rubber

**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** : 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	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: -6.67°C (20°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.35
Density ( lbs / gal )	: 11.27
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not applicable.
Viscosity	: Kinematic (40°C (104°F)): >21 mm <sup>2</sup> /s (>21 cSt)
Volatility	: 44% (v/v), 28.164% (w/w)
% Solid. (w/w)	: 71.836

## 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	: 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 sulfur oxides phosphorus oxides halogenated compounds carbonyl halides metal oxide/oxides

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
bis-[4-(2,3-epoxipropoxy)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Kaolin	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	LD50 Oral	Rat	13 g/kg	-
	LC50 Inhalation Dusts and mists	Rat	>5300 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	4.3 g/kg	-
butanone	LD50 Oral	Rat	7.01 g/kg	-
	LD50 Dermal	Rabbit	6480 mg/kg	-
xylene	LD50 Oral	Rat	2737 mg/kg	-
	LD50 Dermal	Rabbit	1.7 g/kg	-
3-butoxypropan-2-ol	LD50 Oral	Rat	4.3 g/kg	-
	LD50 Dermal	Rabbit	3100 mg/kg	-
	LD50 Oral	Rat	2.2 g/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
ethylbenzene	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Eyes - Cornea opacity	Rabbit	11.8	1 minutes	24 hours
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
xylene					

#### Conclusion/Summary

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

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

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

#### Sensitization

## Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxy)phenyl]propane	skin	Mouse	Sensitizing

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

**Respiratory** : 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
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	3	-
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	-	2B	-
xylene	-	3	-
carbon black	-	2B	-
Isopropyl alcohol	-	3	-
ethylbenzene	-	2B	-
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a human carcinogen.

**Carcinogen Classification code:**

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

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.

### Teratogenicity

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

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
acetone	Category 3	-	Narcotic effects
Talc, not containing asbestiform fibers	Category 3	-	Respiratory tract irritation
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	Category 3	-	Respiratory tract irritation
butanone	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
Isopropyl alcohol	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

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**Target organs** : Contains material which causes damage to the following organs: brain, skin, central nervous system (CNS).  
Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, spleen, peripheral nervous system, gastrointestinal tract, cardiovascular system, upper respiratory tract, adrenal, eye, lens or cornea, stomach.

### Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**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  
 watering  
 redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 dryness  
 cracking  
 blistering may occur  
**Ingestion** : Adverse symptoms may include the following:  
 stomach pains

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

**Conclusion/Summary** : There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. 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

## Section 11. Toxicological information

takes into account, where known, delayed and immediate effects 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

**General** : 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)
2.1 EPOXY PRIMER - BLACK	31129.3	6550.8	N/A	221.2	30.2
acetone	5800	15800	N/A	76	N/A
bis-[4-(2,3-epoxipropoxy)phenyl]propane	15000	23000	N/A	N/A	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	13000	2500	N/A	33.08	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	4300	N/A	N/A	N/A
butanone	2737	6480	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
3-butoxypropan-2-ol	2200	3100	N/A	N/A	N/A
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Acute LC50 5540 mg/l Acute LC50 1.8 mg/l Fresh water	Fish Daphnia - daphnia magna	96 hours 48 hours
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Chronic NOEC 0.3 mg/l Acute LC50 324 mg/l	Daphnia Daphnia	21 days 48 hours



## Section 12. Ecological information

Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
acetone	-	90.9 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	-	Not readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
acetone	-0.23	3	low
butanone	0.3	-	low
xylene	3.12	7.4 to 18.5	low
3-butoxypropan-2-ol	1.2	-	low
Isopropyl alcohol	0.05	-	low
ethylbenzene	3.6	79.43	low

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : 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.

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

<b>Product code</b> DP90LV	<b>Date of issue</b> 29 July 2021	<b>Version</b> 18.03
<b>Product name</b> 2.1 EPOXY PRIMER - BLACK		

## Section 14. Transport information

	<b>TDG</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	UN1263	UN1263	UN1263
<b>UN proper shipping name</b>	PAINT	PAINT	PAINT
<b>Transport hazard class (es)</b>	3	3	3
<b>Packing group</b>	II	II	II
<b>Environmental hazards</b>	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
<b>Marine pollutant substances</b>	(Epoxy Resin, bis-[4-(2,3-epoxipropoxy)phenyl] propane)	(Epoxy Resin, bis-[4-(2,3-epoxipropoxy)phenyl] propane)	Not applicable.

### Additional information

- TDG** : The marine pollutant mark is not required when transported by road or rail.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**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.

**Transport in bulk according to IMO instruments** : Not applicable.

**Proof of classification statement** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).

## Section 15. Regulatory information

### National Inventory List

**Canada inventory ( DSL )** : At least one component is not listed.

## Section 16. Other information

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

**Health** : 3 \* **Flammability** : 3 **Physical hazards** : 0

( \* ) - Chronic effects

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 MSDSs 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.

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.

### National Fire Protection Association (U.S.A.)

**Health** : 3 **Flammability** : 3 **Instability** : 0

## Section 16. Other information

Date of issue/Date of revision 29 July 2021

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  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
SGG = Segregation Group  
UN = United Nations

Indicates information that has changed from previously issued version.

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