SAFETY DATA SHEET



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

Date of issue/Date of revision 28 October 2020

Version 14

Section 1. Identification

Product name : LOW VOC EPOXY PRIMER - WHITE

Product code : DP48LV

Other means of : Not available.

identification

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

412) 434-4515 (U.S.)

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

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Section 2. Hazard identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

GHS label elements Hazard pictograms









Signal word

Hazard statements

: Danger

: 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

: Detain 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

: F 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 Disposal

: Store locked up.

Supplemental label elements

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

: 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: 14.9% (oral), 39.2% (dermal), 37.7% (inhalation)

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Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product name

: LOW VOC EPOXY PRIMER - WHITE

Other means of identification

: Not available.

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
tranium dioxide	Not available.	10 - 30*	13463-67-7
Epoxy Resin	Not available.	7 - 13*	25036-25-3
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Not available.	7 - 13*	1675-54-3
Talc , not containing asbestiform fibres	Not available.	5 - 10*	14807-96-6
acetone	Not available.	5 - 10*	67-64-1
4-chloro-α,α,α-trifluorotoluene	Not available.	3 - 7*	98-56-6
Kaolin	Not available.	1 - 5*	1332-58-7
[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
Isopropyl alcohol	Not available.	1 - 5*	67-63-0
3-butoxypropan-2-ol	Not available.	0.5 - 1.5*	5131-66-8
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.

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Section 4. First-aid measures

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

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

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, CO2, 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 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.

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Section 5. Fire-fighting measures

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

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 noncombustible, 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

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Section 7. Handling and storage

Special precautions

retain product residue and can be hazardous. Do not reuse container.

Advice on general

: 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

: 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.

Exposure limits

Canada

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Section 8. Exposure controls/personal protection

Control parameters

Ingredient name

Occupational exposure limits

ingredient name	Exposure limits
irranium dioxide	CA British Columbia Provincial (Canada, 10/2019). TWA: 3 mg/m³ 8 hours. Form: Respirable dust TWA: 10 mg/m³ 8 hours. Form: Total dust CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 8 hrs OEL: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours. Form: total dust CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.
Epoxy Resin bis-[4-(2,3-epoxipropoxi)phenyl]propane Talc , not containing asbestiform fibres	None. None. CA British Columbia Provincial (Canada, 10/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable CA Ontario Provincial (Canada). TWA: 2 ppb Form: Respirable TWA: 2 mg/m³ Form: Respirable CA Quebec Provincial (Canada, 7/2019). TWAEV: 3 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018).

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Section 8. Exposure controls/personal protection

8 hrs OEL: 2 mg/m³ 8 hours. Form:

Respirable particulate

CA Saskatchewan Provincial (Canada, 7/2013).

TWA: 2 mg/m³ 8 hours. Form: respirable

fraction

CA Alberta Provincial (Canada, 6/2018).

8 hrs OEL: 1200 mg/m³ 8 hours. 15 min OEL: 1800 mg/m³ 15 minutes. 8 hrs OEL: 500 ppm 8 hours.

15 min OEL: 750 ppm 15 minutes. CA British Columbia Provincial (Canada, 10/2019).

TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes.

CA Ontario Provincial (Canada, 6/2019).

TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes.

CA Quebec Provincial (Canada, 7/2019).

TWAEV: 500 ppm 8 hours. TWAEV: 1190 mg/m³ 8 hours. STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours.

IPEL (PPG).

TWA: 0.57 ppm STEL: 1.71 ppm

CA Alberta Provincial (Canada, 6/2018).

8 hrs OEL: 2 mg/m³ 8 hours. Form:

Respirable

CA British Columbia Provincial (Canada, 10/2019).

TWA: 2 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 7/2019).

TWAEV: 5 mg/m³ 8 hours. Form:

Respirable dust.

CA Ontario Provincial (Canada, 6/2019).

TWA: 2 mg/m³ 8 hours. Form: Respirable fraction.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 4 mg/m³ 15 minutes. Form:

respirable fraction

TWA: 2 mg/m³ 8 hours. Form: respirable fraction

None.

CA Alberta Provincial (Canada, 6/2018).

15 min OEL: 885 mg/m³ 15 minutes. 15 min OEL: 300 ppm 15 minutes. 8 hrs OEL: 200 ppm 8 hours. 8 hrs OEL: 590 mg/m³ 8 hours.

acetone

4-chloro-α,α,α-trifluorotoluene

Kaolin

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

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Section 8. Exposure controls/personal protection

CA British Columbia Provincial (Canada, 10/2019).

STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019).

STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours.

CA Quebec Provincial (Canada, 7/2019).

STEV: 300 mg/m³ 15 minutes. STEV: 100 ppm 15 minutes. TWAEV: 150 mg/m³ 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/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. 8 hrs OEL: 100 ppm 8 hours.

CA British Columbia Provincial (Canada, 10/2019).

STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

CA Quebec Provincial (Canada, 7/2019).

STEV: 651 mg/m³ 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 434 mg/m³ 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.

CA Alberta Provincial (Canada, 6/2018).

15 min OEL: 984 mg/m³ 15 minutes. 8 hrs OEL: 200 ppm 8 hours. 15 min OEL: 400 ppm 15 minutes. 8 hrs OEL: 492 mg/m³ 8 hours.

CA British Columbia Provincial (Canada, 10/2019).

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/m³ 8 hours. STEV: 500 ppm 15 minutes. STEV: 1230 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada,

xylene

Isopropyl alcohol

Canada

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Section 8. Exposure controls/personal protection

STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.

3-butoxypropan-2-ol

ethylbenzene

IPEL (PPG).

TWA: 50 ppm

CA Alberta Provincial (Canada, 6/2018).

15 min OEL: 543 mg/m³ 15 minutes. 15 min OEL: 125 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. 8 hrs OEL: 100 ppm 8 hours.

CA British Columbia Provincial (Canada,

10/2019).

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/m³ 15 minutes. STEV: 125 ppm 15 minutes. TWAEV: 434 mg/m³ 8 hours. TWAEV: 100 ppm 8 hours.

CA Saskatchewan Provincial (Canada,

7/2013).

STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.

CA British Columbia Provincial (Canada, 10/2019).

TWA: 0.025 mg/m³ 8 hours. Form:

Respirable

CA Ontario Provincial (Canada, 6/2019).

TWA: 0.1 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 7/2019).

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 Saskatchewan Provincial (Canada,

7/2013).

TWA: 0.05 mg/m³ 8 hours. Form:

respirable fraction

Consult local authorities for acceptable exposure limits.

crystalline silica, respirable powder (<10 microns)

procedures

Recommended monitoring: 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.

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Section 8. Exposure controls/personal protection

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

Skin protection

Hand protection

: Chemical splash goggles and face shield.

: 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

: butyl rubber

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 available.
Melting point : Not available.
Boiling point : >37.78°C (>100°F)

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Section 9. Physical and chemical properties

Flash point : Closed cup: -3.33°C (26°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.53

Density (lbs / gal) : 12.77

Solubility : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not available.

Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

Volatility : 39% (v/v), 23.022% (w/w)

% Solid. (w/w) : 76.978

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

: Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
tranium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
4-chloro- α , α , α -trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
Kaolin	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and mists	Rat	>5300 mg/m ³	4 hours
trimethoxysilane				
-	LD50 Dermal	Rabbit	4.3 g/kg	-
	LD50 Oral	Rat	7.01 g/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-
	LD50 Oral	Rat	2.2 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	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-epoxipropoxi) phenyl]propane	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
. 33	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
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

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

There are no data available on the mixture itself.There are no data available on the mixture itself.

Sensitization

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Section 11. Toxicological information

3	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing

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

Mutagenicity

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

Carcinogenicity

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

Classification

OSHA	IARC	NTP
-	2B	-
-	3	-
-	2B	-
-	3	-
-	3	-
-	2B	-
-	1	Known to be a human carcinogen.
	-	- 2B - 3 - 2B - 3 - 3

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
ralc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
acetone	Category 3	-	Narcotic effects
4-chloro-α,α,α-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 crystalline silica, respirable powder (<10 microns)	Category 2 Category 1	- inhalation	hearing organs

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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
	ASPIRATION HAZARD - Category 1 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. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). 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

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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 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)
WW VOC EPOXY PRIMER - WHITE	38348.8	13304.6	N/A	351.3	47.9
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
acetone	5800	15800	N/A	76	N/A
4-chloro-α,α,α-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
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
3-butoxypropan-2-ol	2200	3100	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 5540 mg/l	Fish	96 hours
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute LC50 324 mg/l	Daphnia	48 hours
Isopropyl alcohol ethylbenzene	Acute EC50 10100 mg/l Fresh water Acute LC50 150 to 200 mg/l Fresh water	Daphnia - Daphnia magna Fish	48 hours 96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
z cetone	-	90.9 % - Readily - 2	8 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane acetone xylene ethylbenzene	- - - -		- - -		Not readily Readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
acetone	-0.24	3	low
butanone	0.29	-	low
xylene	3.16	7.4 to 18.5	low
Isopropyl alcohol	0.05	-	low
3-butoxypropan-2-ol	1.15	-	low
ethylbenzene	3.15	79.43	low

Mobility in soil

Soil/water partition coefficient (Koc)

: 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

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Section 13. Disposal considerations

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

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	II	II	II
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	(Epoxy Resin, bis-[4- (2,3-epoxipropoxi)phenyl] propane)	(Epoxy Resin, bis-[4- (2,3-epoxipropoxi)phenyl] propane)	Not applicable.

Additional information

TDG : The marine pollutant mark is not required when transported by road or rail.

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **IMDG**

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: Not applicable.

to IMO instruments

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).

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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

Date of issue/Date of 28 October 2020

revision

Organization that prepared : EHS

the MSDS

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.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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