# **SAFETY DATA SHEET**



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

Date of issue/Date of revision 5 February 2024 Version 3.02

Section 1. Identification			
Section 1. Identin	Section 1. Identification		
Product name	: PPG DTM EPOXY 202 UP ARMOR YELLOW BASE		
Product code	: 00472327		
Other means of identification	: Not available.		
Product type	: Liquid.		
Relevant identified uses of	f 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	<ul> <li>PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121</li> </ul>		
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272		
<u>Emergency telephone</u> <u>number</u>	: (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	<ul> <li>FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Health Hazards Not Otherwise Classified - Category 1</li> </ul>

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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 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	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs) Prolonged or repeated contact may dry skin and cause irritation.</li> </ul>
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. Do not breathe 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. 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	<ul> <li>Sanding and grinding dusts may be harmful if inhaled. 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.</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 2.3% (oral), 19.5% (dermal), 59.9% (inhalation)</li> </ul>

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: PPG DTM EPOXY 202 UP ARMOR YELLOW BASE
Other means of identification	: Not available.

### **CAS number/other identifiers**

Ingredient name	Synonyms	% (w/w)	CAS number
₽́poxy Resin (700 <mw<=1100)< td=""><td>phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis[oxirane] (700<mw<=1100)< td=""><td>10 - 30*</td><td>25036-25-3</td></mw<=1100)<></td></mw<=1100)<>	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis[oxirane] (700 <mw<=1100)< td=""><td>10 - 30*</td><td>25036-25-3</td></mw<=1100)<>	10 - 30*	25036-25-3
bis-[4-(2,3-epoxipropoxi)phenyl] propane	2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy) phenyl]propane; 2,2-bis[4- (2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(p-(2,3-epoxypropoxy) phenyl)-; diglycidyl ether of bisphenol-A; 2,2-bis(4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether; Araldite; DIPHENYLOL PROPANE DIGLYCIDYL ETHER	10 - 30*	1675-54-3
butanone	ethyl methyl ketone; 2-Butanone; Methyl ethyl ketone; MEK; 2-Butanone (Methyl ethyl ketone); Methyl acetone; butane- 2-one; 2-oxobutane; methyl ethyl ketone; butanone-2; ketobutan; MEC; MEETCO; MEK; methyl acetone; methylethylketone; oxobutane; ethylmethylketone;; butan- 2-one; Methyl ethyl ketone (MEK) (I,T)	7 - 13*	78-93-3
xylene	Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-,; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture)	5 - 10*	1330-20-7
iron hydroxide oxide yellow	C.I. Pigment Yellow 42; CI 77492; iron hydroxide oxide yellow; E 172; iron oxide yellow; C.I. 77492; iron hydroxide oxide yellow; C.I. 77492; E 172; iron oxide yellow; Iron oxide; Iron Oxide Yellow; Transparent iron oxide yellow; C.I. pigment yellow 042; FERRIC OXIDE, FERRIC HYDROXIDE, CALCIUM CARBONATE; C.I. PIGMENT YELLOW 42, (IRON OXIDE (YELLOW)); SYNTHETIC YELLOW IRON OXIDE	3 - 7*	51274-00-1
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### Product name PPG DTM EPOXY 202 UP ARMOR YELLOW BASE

### Section 3. Composition/information on ingredients

Limestone	Calcium carbonate; Marble; calcite;	3 - 7*	1317-65-3
LITTESIONE	Calcium carbonate, marble, calcite, MARBLE DUST; VALERITE; GROUND LIMESTONE; LIMESTONE FLOUR; LIMESTONE, GROUND; Agstone; CALCIUM CARBONATE (MARBLE)	5-7	
Cashew, nutshell liq., 2-hydroxyethyl ethers	Cashew, nutshell liquid, 2-hydroxyethyl ethers	1 - 5*	232268-65-4
titanium dioxide	Titanium oxide; Titanium oxide (TiO2); Cl 77891; Titanium peroxide; Rutile; C.I. Pigment White 6; titanium dioxide coated with isopropoxytitanium triisostearate, containing by weight 1,5 % or more but not more than 2,5 % of isopropoxytitanium triisostearate; glass flakes (CAS RN 65997-17-3): — of a thickness of 0,3 µm or more but not more than 10 µm, and — coated with titanium dioxide (CAS RN 13463-67-7) or iron oxide (CAS RN 18282- 10-5); titanium dioxide, other than those of heading 3206 11 00; C.I. 77891; E 171; titanium(IV) oxide, other than those of heading 3206 11 00	1 - 5*	13463-67-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl-4-piperidinyl) ester; Decanedioic acid, bis (1,2,2,6,6-pentamethyl-4-piperidinyl) ester; bis(1,2,2,6,6-pentamethyl-4-piperidin-4-yl) decanedioate; Bis(1,2,2,6,6-pentamethyl- 4-piperidinyl) decanedioate; Bis (1,2,2,6,6-pentamethyl-4-piperidyl) decanedioate; Decanedioic acid bis (1,2,2,6,6-pentamethyl-4-piperidinyl) ester; DECANEDIOATE, BIS (1,2,2,6,6-PENTAMETHYL-4- PIPERIDINYL) (PICCS); Bis(N-methyl- 2,2,6,6-tetramethyl-4-piperidinyl) sebacate; Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) 1,8-octanedicarboxylate; Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate; DECANEDIOATE, BIS (1,2,2,6,6-PENTAMETHYL-4- PIPERIDINYL)	1 - 5*	41556-26-7
ethylbenzene	Benzene, ethyl-; Phenylethane; 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, bromopropyloxycarbonyl	0.5 - 1.5*	100-41-4

## Section 3. Composition/information on ingredients

	orchloropropyloxycarbonyl) benzene		
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Decanedioic acid, 1-methyl 10- (1,2,2,6,6-pentamethyl-4-piperidinyl) ester; Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester; methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate; methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate; Decanedioic acid methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester; Methyl 1,2,2,6,6-pentamethyl-4-piperidiyl sebacate; Methyl 1,2,2,6,6-pentamethyl- 4-piperidinyl sebacate; DECANEDIOATE, METHYL, 1,2,2,6,6-PENTAMETHYL- 4-PIPERIDINYL; Methyl 1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.1 - 1*	82919-37-7

\*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	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

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

Potential acute health effect	<u>8</u>
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.

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# Section 4. First-aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate n	nedical attention and special treatment needed, if neces

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

# Section 6. Accidental release measures

Personal precautions, protect	tiv	e 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 co	nt	ainment 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. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not 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

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# Section 7. Handling and storage

		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	:	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
Poxy Resin (700 <mw<=1100) bis-[4-(2,3-epoxipropoxi)phenyl]propane butanone</mw<=1100) 	None. None. CA Alberta Provincial (Canada, 6/2018). OEL: 885 mg/m <sup>3</sup> 15 minutes. OEL: 300 ppm 15 minutes. OEL: 200 ppm 8 hours. OEL: 590 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 6/2022). 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, 6/2022). STEV: 300 mg/m <sup>3</sup> 15 minutes. STEV: 100 ppm 15 minutes. TWAEV: 150 mg/m <sup>3</sup> 8 hours. TWAEV: 150 mg/m <sup>3</sup> 8 hours. TWAEV: 50 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013).
xylene	STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours. CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene (o,m & p isomers)] OEL: 651 mg/m <sup>3</sup> 15 minutes.
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# Section 8. Exposure controls/personal protection

	=
	OEL: 150 ppm 15 minutes. OEL: 434 mg/m <sup>3</sup> 8 hours. OEL: 100 ppm 8 hours. <b>CA British Columbia Provincial (Canada,</b> <b>6/2022). [Xylene (o, m &amp; p isomers)]</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. <b>CA Quebec Provincial (Canada, 6/2022).</b> <b>[Xylene (o-,m-,p- isomers)]</b> STEV: 651 mg/m <sup>3</sup> 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 434 mg/m <sup>3</sup> 8 hours. TWAEV: 400 ppm 8 hours. <b>CA Ontario Provincial (Canada, 6/2019).</b> <b>[Xylene (o-, m-, p-isomers)]</b> STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours. <b>CA Saskatchewan Provincial (Canada,</b> <b>7/2013). [Xylene (o, m-, p-isomers)]</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
iron hydroxide oxide yellow	CA British Columbia Provincial (Canada, 6/2022). [Iron oxide dust as Fe] TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours. Form: Dust CA British Columbia Provincial (Canada, 6/2022). [Iron oxide Fume, as Fe] TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours. Form: Fume STEL: 10 mg/m <sup>3</sup> , (as Fe) 15 minutes. Form: Fume
Limestone	<ul> <li>CA British Columbia Provincial (Canada, 6/2022).</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust STEL: 20 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 3 mg/m<sup>3</sup> 8 hours. Form: respirable fraction</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>TWAEV: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust.</li> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>[Calcium carbonate] Skin sensitizer.</li> <li>OEL: 10 mg/m<sup>3</sup> 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>[Limestone]</li> <li>STEL: 20 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours.</li> </ul>
Cashew, nutshell liq., 2-hydroxyethyl ethers titanium dioxide	None. <b>CA British Columbia Provincial (Canada,</b> <b>6/2022). [Titanium dioxide]</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust TWA: 3 mg/m <sup>3</sup> 8 hours. Form: respirable fraction <b>CA Quebec Provincial (Canada, 6/2022).</b> TWAEV: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust.
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### Section 8. Exposure controls/personal protection

	CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 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. <b>CA Ontario Provincial (Canada, 6/2019).</b>
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	None.
ethylbenzene	CA Alberta Provincial (Canada, 6/2018). OEL: 543 mg/m <sup>3</sup> 15 minutes. OEL: 125 ppm 15 minutes. OEL: 434 mg/m <sup>3</sup> 8 hours. OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013).
	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	None.

#### 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 measured	res	
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		

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# Section 8. Exposure controls/personal 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	<ul> <li>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.</li> </ul>
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

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	1	Yellow.	
Odor	1	Characteristic.	
Odor threshold	1	Not available.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 4°C (39.2°F)	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Flammability	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	1	Not available.	
Vapor pressure	:	Not available.	
Vapor density	1	Not available.	
Relative density	1	1.19	
Density(lbs / gal)	:	9.93	
		Media	Result
Solubility(ies)	ľ	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	

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# Section 9. Physical and chemical properties

Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	: 31% (v/v), 21.86% (w/w)
% Solid. (w/w)	: 78.14

# 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	<ul> <li>When exposed to high temperatures may produce hazardous decomposition products.</li> <li>Refer to protective measures listed in sections 7 and 8.</li> </ul>
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 nitrogen oxides metal oxide/oxides

# Section 11. Toxicological information

### Information on toxicological effects

Acute toxicitv	-	
	A outo	tovioity
	Acute	LOXICILY

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy Resin (700 <mw &lt;=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/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	-
iron hydroxide oxide yellow	LC50 Inhalation Dusts and mists	Rat	>5.05 mg/l	4 hours
	LD50 Oral	Rat	>10 g/kg	-
Limestone	LD50 Oral	Rat	6450 mg/kg	-
titanium 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(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 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	-
methyl	LD50 Oral	Rat	3.125 g/kg	-
1,2,2,6,6-pentamethyl- 4-piperidyl sebacate				

### Product name PPG DTM EPOXY 202 UP ARMOR YELLOW BASE

# Section 11. Toxicological information

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

Product/ingredient name         Route of exposure         Species         Result           bis-[4-(2,3-epoxipropoxi) phenyl]propane         skin         Mouse         Sensitizing           Skin         : There are no data available on the mixture itself.         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           Propane         -         3         -         -           xylene         -         3         -         -						
Eyes - Redness of the conjunctivae       Rabbit       0.4       24 hours       -         Skin - Edema       Rabbit       0.5       4 hours       -         Skin - Erythema/Eschar       Rabbit       0.8       4 hours       -         Skin - Stim - Mild irritant       Rabbit       -       4 hours       -         Skin - Skin - Mild irritant       Rabbit       -       4 hours       -         Skin - Skin - Skin Moderate irritant       Rabbit       -       4 hours       -         Skin - Skin :       There are no data available on the mixture itself.       -       24 hours       -         Skin :       There are no data available on the mixture itself.       -       -       -       -         Respiratory       :       There are no data available on the mixture itself.       -       -       -         Skin :       Inere are no data available on the mixture itself.       -       -       -       -         Product/ingredient name       Route of exposure       Sensitizing       -       -       -       -         Skin :       :       There are no data available on the mixture itself.       -       -       -       -       -       -         Skin :       :       There are no						
Skin - Edema Skin - Keythema/Eschar Skin - Mid irritant Skin - Moderate irritantRabbit Rabbit Rabbit0.5 A hours 						
Skin - Erythema/Eschar Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritantRabbit Rabbit0.8 - -4 hours 4 hours  - -4 hours - -  - - - 24 hours 500- - - -Conclusion/Summary Skin:There are no data available on the mixture itself. Eyes ::There are no data available on the mixture itself.Eyes:There are no data available on the mixture itself. exposure:ResultSensitization:There are no data available on the mixture itself.Product/ingredient name phenyl]propaneRoute of exposureSpeciesResultSkin:There are no data available on the mixture itself. RespiratorySensitizingSkin:There are no data available on the mixture itself. Conclusion/Summary :There are no data available on the mixture itself.Skin:There are no data available on the mixture itself. Conclusion/Summary ::There are no data available on the mixture itself.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 propane xylene =::::::::::::::::::::::: <td></td>						
xyleneSkin - Mild irritant Skin - Moderate irritantRabbit Rabbit-4 hours 24 hours 500-Conclusion/Summary Skin:There are no data available on the mixture itself. Eyes:There are no data available on the mixture itself.Skin:There are no data available on the mixture itself. respiratory:There are no data available on the mixture itself.SensitizationProduct/ingredient name exposureRoute of exposureSpeciesResultSkin:There are no data available on the mixture itself. RespiratorySensitizingSkin::There are no data available on the mixture itself. RespiratorySensitizingSkin:::There are no data available on the mixture itself. SensitizingSkin:::::Mutagenicity Conclusion/Summary::::Classification:::::Product/ingredient name propane xylene::::Product/ingredient name carcinogenicity::::Conclusion/Summary:::::Product/ingredient name propane xylene::::Product/ingredient name propane xylene::::Product/ingredient name propane xylene::::Product/ingredient name propane xylene::::Product/ingredient						
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       Product/ingredient name       Route of exposure       Species       Result         bis-[4-(2,3-epoxipropoxi)       skin       Mouse       Sensitizing         Skin       :       There are no data available on the mixture itself.         Respiratory       :       There are no data available on the mixture itself.         Skin       :       There are no data available on the mixture itself.         Respiratory       :       There are no data available on the mixture itself.         Wutagenicity       :       There are no data available on the mixture itself.         Conclusion/Summary       :       There are no data available on the mixture itself.         Carcinogenicity       :       Conclusion/Summary       :         Conclusion/Summary       :       There are no data available on the mixture itself.         Classification       :       :       :         Product/ingredient name       OSHA       IARC       NTP         bis-[4-(2,3-epoxipropoxi)phenyl]       :       3       -						
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       Species       Result         Product/ingredient name       Route of exposure       Species       Result         bis-[4-(2,3-epoxipropoxi)       skin       Mouse       Sensitizing         Skin       : There are no data available on the mixture itself.       Sensitizing         Skin       : There are no data available on the mixture itself.         Respiratory       : There are no data available on the mixture itself.         Respiratory       : There are no data available on the mixture itself.         Quagenicity       : There are no data available on the mixture itself.         Conclusion/Summary       : There are no data available on the mixture itself.         Carcinogenicity       : Conclusion/Summary       : There are no data available on the mixture itself.         Classification       : There are no data available on the mixture itself.         Product/ingredient name       OSHA       IARC       NTP         Dis-[4-(2,3-epoxipropoxi)phenyl]       : 3       -         propane       : 3       -       -         xylene       : 3 <th< td=""><td></td></th<>						
Eyes       : There are no data available on the mixture itself.         Respiratory       : There are no data available on the mixture itself.         Sensitization       Product/ingredient name       Route of exposure       Species       Result         bis-[4-(2,3-epoxipropoxi) phenyl]propane       skin       Mouse       Sensitizing         Skin       : There are no data available on the mixture itself.       Sensitizing         Mutagenicity       : There are no data available on the mixture itself.         Conclusion/Summary       : There are no data available on the mixture itself.         Carcinogenicity       : There are no data available on the mixture itself.         Conclusion/Summary       : There are no data available on the mixture itself.         Carcinogenicity       : There are no data available on the mixture itself.         Classification       : There are no data available on the mixture itself.         Product/ingredient name       OSHA       IARC       NTP         Propane       : 3       -       -         xylene       : 3       -       -         ittanium dioxide       : 2B       -       -         ethylbenzene       : 2B       -       -						
Respiratory       : There are no data available on the mixture itself.         Sensitization       Product/ingredient name       Route of exposure       Species       Result         bis-[4-(2,3-epoxipropoxi) phenyl]propane       skin       Mouse       Sensitizing         Skin       : There are no data available on the mixture itself.       Sensitizing         Respiratory       : 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.         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         Product/ingredient name       OSHA       IARC       NTP         propane       :       :       :       :         xylene       :       :       :       :         titanium dioxide       :       :       :       :         ethylbenzene       :       :       :       :						
Sensitization         Product/ingredient name       Route of exposure       Species       Result         bis-[4-(2,3-epoxipropoxi)       skin       Mouse       Sensitizing         bis-[4-(2,3-epoxipropoxi)       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.         Conclusion/Summary       :       There are no data available on the mixture itself.         Carcinogenicity       :       There are no data available on the mixture itself.         Classification       :       There are no data available on the mixture itself.         Product/ingredient name       OSHA       IARC       NTP         Prosenexylene       :       3       -         xylene       :       3       -         titanium dioxide       :       2B       -         ethylbenzene       :       2B       -						
exposure     Mouse     Sensitizing       bis-[4-(2,3-epoxipropoxi) 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     : There are no data available on the mixture itself.       Conclusion/Summary     : There are no data available on the mixture itself.       Carcinogenicity     : There are no data available on the mixture itself.       Conclusion/Summary     : There are no data available on the mixture itself.       Classification     : There are no data available on the mixture itself.       Product/ingredient name     OSHA     IARC     NTP       propane     : -     : -     : -       xylene     : -     : -     : -       itanium dioxide     : -     : 2B     : -       ethylbenzene     : 2B     : -     : -						
exposure       Mouse       Sensitizing         bis-[4-(2,3-epoxipropoxi)       skin       Mouse       Sensitizing         skin       : There are no data available on the mixture itself.       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       : There are no data available on the mixture itself.         Product/ingredient name       OSHA       IARC       NTP         propane       :       :       :       :         ylene       :       :       :       :         itanium dioxide       :       :       :       :         :       :       :       :       :       :						
phenyl]propane       -						
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.         Carcinogenicity       Conclusion/Summary       : There are no data available on the mixture itself.         Classification       Product/ingredient name       OSHA       IARC       NTP         Dis-[4-(2,3-epoxipropoxi)phenyl]       -       3       -         propane       -       3       -         xylene       -       3       -         ethylbenzene       -       2B       -						
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         Dis-[4-(2,3-epoxipropoxi)phenyl]       -       3       -         propane       -       3       -         xylene       -       3       -         titanium dioxide       -       2B       -         ethylbenzene       -       2B       -	: There are no data available on the mixture itself.					
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         projane       -       3       -         ylene       -       3       -         titanium dioxide       -       2B       -         ethylbenzene       -       2B       -						
Carcinogenicity       Conclusion/Summary       : There are no data available on the mixture itself.         Classification       Product/ingredient name       OSHA       IARC       NTP         Dis-[4-(2,3-epoxipropoxi)phenyl]       -       3       -         propane       -       3       -         xylene       -       3       -         titanium dioxide       -       2B       -         ethylbenzene       -       2B       -						
ClassificationProduct/ingredient nameOSHAIARCNTPbis-[4-(2,3-epoxipropoxi)phenyl] propane xylene-3-constant titanium dioxide 						
Conclusion/Summary: There are no data available on the mixture itself.ClassificationProduct/ingredient nameOSHAIARCNTPprojane xylene-3-titanium dioxide ethylbenzene-32B						
ClassificationProduct/ingredient nameOSHAIARCNTPprs-[4-(2,3-epoxipropoxi)phenyl] propane xylene-3-zylene titanium dioxide ethylbenzene-3-2B 2B-22B-						
bis-[4-(2,3-epoxipropoxi)phenyl] - 3 - propane xylene - 3 - titanium dioxide - 2B - ethylbenzene - 2B -						
propane xylene - 3 - titanium dioxide - 2B - ethylbenzene - 2B -						
xylene-3-titanium dioxide-2B-ethylbenzene-2B-						
titanium dioxide - 2B - ethylbenzene - 2B -						
ethylbenzene - 2B -						
• • • • • • • • • • • • • • • • • • •						
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						
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.						
Teratogenicity						
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.						

Specific target organ toxicity (single exposure)

### Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
butanone xylene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name		Category	Route of exposure	Target organs	
ethylbenzene		Category 2	-	hearing organs	
Target organs	Contains material which causes damage to the following organs: brain				

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Target organs
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Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, peripheral nervous system, upper respiratory tract,

skin, central nervous system (CNS), ears, eye, lens or cornea.

#### **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 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	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

### Product name PPG DTM EPOXY 202 UP ARMOR YELLOW BASE

# Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long	<u>ı term ex</u>	posure
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Conclusion/Summary	:	There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many 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 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.
<u>Long term exposure</u>		
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 eff	ect	<u>S</u>
General	:	May cause 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	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
Numerical measures of toxic		
Acute toxicity estimates		

# Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PPG DTM EPOXY 202 UP ARMOR YELLOW BASE	5669.4	4672.5	N/A	49.1	6.3
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
butanone	2737	6480	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Limestone	6450	N/A	N/A	N/A	N/A
Cashew, nutshell liq., 2-hydroxyethyl ethers	N/A	1100	N/A	N/A	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3125	N/A	N/A	N/A	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
iron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours
Limestone	Acute LC50 >56000 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	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
ethylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
øis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not readily
xylene ethylbenzene	-		- -		Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
butanone	0.3	-	Low
xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low

### Mobility in soil

Soil/water partition coefficient (Koc) : Not available.

Canada Page: 16/18

Product name PPG DTM EPOXY 202 UP ARMOR YELLOW BASE

## 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 nonrecyclable 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

## Section 14. Transport information

	TDG	IMDG	ΙΑΤΑ		
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	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.		

#### **Additional information**

IMDG

- **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  $\leq$ 5 L or  $\leq$ 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 : Not applicable. to IMO instruments

### Product name PPG DTM EPOXY 202 UP ARMOR YELLOW BASE

### Section 14. Transport information

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 in DSL but all such components are listed in NDSL.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)							
Health :		*	Flammability	:	3	Physical hazards	:

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 : 2 Flammabili Date of issue/Date of revision	ity: 3 Instability: 0 5 February 2024
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 = Internediate 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.