SAFETY DATA SHEET



Date of issue/Date of revision 3 October 2024 Version 3

Section 1. Identification		
Product name	: 🕅 OVAGUARD 5031 FAST CURE DARK GRAY - A	
Product code	: 00462583	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Industrial applications, Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: 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. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.9% (dermal), 77.2% (inhalation)
	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 and require the use of appropriate personal protective equipment and/

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Section 2. Hazards identification

GHS label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborn child.
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. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: F exposed or concerned: Get medical advice or attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. 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.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture : NOVAGUARD 5031 FAST CURE DARK GRAY - A **Product name**

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
p arium sulfate	≥20 - ≤41	7727-43-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥20 - ≤50	1675-54-3
titanium dioxide	≥5.0 - ≤10	13463-67-7
benzyl alcohol	≥1.0 - ≤3.8	100-51-6
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.0 - <3.0	2530-83-8
tetrahydro-2-furylmethanol	≤1.8	97-99-4
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	<1.0	25068-38-6
carbon black	≤1.0	1333-86-4
ethylbenzene	<1.0	100-41-4

SUB codes represent substances without registered CAS Numbers.

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

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

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

Section 4. First aid measures

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

Description of necessary first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
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	<u>effects</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.
Over-exposure signs/s	ymptoms
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
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Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	 reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides sulfur 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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	ainment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. 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. 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 ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

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Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	
Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. 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. 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
p arium sulfate	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 5 mg/m ³ . Form: Inhalable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m ³ . Form: Total dust.
	TWA 8 hours: 5 mg/m ³ . Form: Respirable
	fraction.
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.
titanium dioxide	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 2.5 mg/m ³ . Form: respirable
	fraction, finescale particles.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m ³ . Form: Total dust.
benzyl alcohol	IPEL (-)
	TWA: 5 ppm.
	STEL: 10 ppm.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
tetrahydro-2-furylmethanol	None.
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	None.
carbon black	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 3 mg/m ³ . Form: Inhalable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 3.5 mg/m ³ .
ethylbenzene	ACGIH TLV (United States, 7/2023)
	Ototoxicant.
	TWA 8 hours: 20 ppm.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 435 mg/m ³ .

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Section 8. Exposure controls/personal protection

	Key to abbreviations					
C = Ceiling Limit F = Fume IPEL = Internal Permissible Expo OSHA = Occupational Safety and R = Respirable	Governmental Industrial Hygienists. osure Limit Health Administration.) Subpart Z - Toxic and Hazardous Substances	S SR SS STEL TD TLV TWA	 Potential skin absorption Respiratory sensitization Skin sensitization Short term Exposure limit values Total dust Threshold Limit Value Time Weighted Average 			
Recommended monitoring procedures			itoring standards. Reference to national mination of hazardous substances will			
Appropriate engineering controls Environmental exposure controls	 local exhaust ventilation or other er airborne contaminants below any re Emissions from ventilation or work they comply with the requirements 	ngineering c ecommende process equ of environm ngineering m	ed or statutory limits. uipment should be checked to ensure ental protection legislation. In some nodifications to the process equipment			
Individual protection measure	<u>IS</u>					
Hygiene measures	eating, smoking and using the lava	tory and at t used to remo 1 not be allow ng. Ensure	ove potentially contaminated clothing. wed out of the workplace. Wash			
Eye/face protection	: Chemical splash goggles.					
Skin protection						
Hand protection	worn at all times when handling che necessary. Considering the param during use that the gloves are still r noted that the time to breakthrough glove manufacturers. In the case of protection time of the gloves canno	emical produ leters specif retaining the n for any gloo of mixtures,	ng with an approved standard should be ucts if a risk assessment indicates this is fied by the glove manufacturer, check ir protective properties. It should be we material may be different for different consisting of several substances, the tely estimated.			
Gloves	: butyl rubber					
Body protection	: Personal protective equipment for the performed and the risks involved a handling this product.		ould be selected based on the task being e approved by a specialist before			
Other skin protection	based on the task being performed specialist before handling this prod	l and the risl uct.	rotection measures should be selected ks involved and should be approved by a			
Respiratory protection	are exposed to concentrations abo	e working lin ve the expos y fitted, air-p assessmen	nits of the selected respirator. If workers sure limit, they must use appropriate, purifying or air-fed respirator complying t indicates this is necessary.			

Section 9. Physical and chemical properties

Appearance

uid. rk grey.
aracteristic.
t available.
t applicable.
t available.
7.78°C (>100°F)
osed cup: 251.67°C (485°F) [Product does not sustain combustion.]
t available.
3
.02
edia Result
Id water Not soluble
t applicable.
namic (room temperature): Not available. nematic (room temperature): Not available. nematic (40°C (104°F)): >21 mm²/s (>21 cSt)
.145

Section 10. Stability and reactivity

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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.

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Section 10. Stability and reactivity

: Depending on conditions, decomposition products may include the following materials: Hazardous decomposition products carbon oxides sulfur oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
barium sulfate LD50 Dermal		Rat	>2000 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	-
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	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
trimethoxysilane				
-	LD50 Oral	Rat	7.01 g/kg	-
tetrahydro-2-furylmethanol	LC50 Inhalation Vapor	Rat	19630 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1.22 g/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin				
	LD50 Oral	Rat	>2 g/kg	-
carbon black	LD50 Oral	Rat	>10 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
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	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 - Mild irritant	Rabbit	-	4 hours	-
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
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Section 11. Toxicological information

	5							
Conclusion/Summary					· · ·			
Skin		There are no data available on the mixture itself.						
Eyes	: There are	e no data	available on the mixtu	re itself.				
Respiratory	: There are	e no data	available on the mixtu	re itself.				
<u>Sensitization</u>								
Product/ingredient name	Route of exposure		Species		Result			
s-[4-(2,3-epoxipropoxi)	skin		Mouse		Sensitizing			
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	skin	skin Mouse			Sensitizing			
Conclusion/Summary	•	•		•				
Skin	There are	e no data	available on the mixtu	re itself.				
Respiratory	There are	e no data	available on the mixtu	re itself.				
Mutagenicity								
Conclusion/Summary	There are	e no data	available on the mixtu	re itself.				
Carcinogenicity								
Conclusion/Summary	There are	e no data	available on the mixtu	re itself.				
<u>Classification</u>								
Product/ingredient name	OSHA	IARC	NTP					
øis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-					
titanium dioxide carbon black	-	2B 2B	-					

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

ethylbenzene

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

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2B

Teratogenicity

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

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Product name NOVAGUARD 5031 FAST CURE DARK GRAY - A

Section 11. Toxicological information

Т	a	rq	et	or	'n	a	ns

: Contains material which causes damage to the following organs: blood, liver, heart, brain.

Contains material which may cause damage to the following organs: kidneys, lungs, spleen, upper respiratory tract, eyes, central nervous system (CNS), testes.

Aspiration hazard

Name		Result					
ethylbenzene		ASPIRATION HAZARD - Category 1					
nformation on the likely r	outes of exposure	· · · ·					
Potential acute health eff	ects						
Eye contact	: Causes serious eye irritation.						
Inhalation	: No known significant effects o	or critical hazards.					
Skin contact		auses skin irritation. Defatting to the skin. May cause an allergic skin reaction.					
Ingestion	: No known significant effects o						
Over-exposure signs/syn	0						
Eye contact	: Adverse symptoms may inclue pain or irritation watering redness	de the following:					
Inhalation	: Adverse symptoms may inclue reduced fetal weight increase in fetal deaths skeletal malformations	de the following:					
Skin contact	: Adverse symptoms may inclue irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations	de the following:					
Ingestion	: Adverse symptoms may inclue reduced fetal weight increase in fetal deaths skeletal malformations	de the following:					
elayed and immediate ef	fects and also chronic effects from	n short and long term exposure					
Conclusion/Summary	forming methanol if hydrolyzed fatal or cause blindness. This GHS Carcinogen Category 2 I TiO2 is utilized as a raw mate particles are bound in a matrix unbound particles of TiO2 who the coating surface or mist fro duration and level of exposure equipment and/or engineering vapor concentrations in exces adverse health effects such as	In the mixture itself. Trimethoxysilanes are capable of d or ingested. If swallowed, methanol may be harmful or a product contains TiO2 which has been classified as a based on its IARC 2B classification. For many products, rial in a liquid coating formulation. In this case, the TiO2 with no meaningful potential for human exposure to en the product is applied with a brush or roller. Sanding om spray applications may be harmful depending on the e and require the use of appropriate personal protective g controls (see Section 8). Exposure to component solver is of the stated occupational exposure limit may result in s mucous membrane and respiratory system irritation and s, liver and central nervous system. Symptoms and signs					

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Section 11. Toxicological information

	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.
<u>Short 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.
<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	ects
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	 Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.
Numerical measures of toxic	<u>sity</u>
Acute toxicity estimates	

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
NOVAGUARD 5031 FAST CURE DARK GRAY - A barium sulfate bis-[4-(2,3-epoxipropoxi)phenyl]propane benzyl alcohol [3-(2,3-epoxypropoxy)propyl]trimethoxysilane tetrahydro-2-furylmethanol reaction product: bisphenol-A-(epichlorhydrin); epoxy	23911.9 N/A 15000 1230 7010 1600 2500	5155.4 2500 23000 2000 N/A 1220 2500	N/A N/A N/A N/A N/A N/A	243.9 N/A N/A N/A N/A 19.63 N/A	9.1 N/A N/A 1.5 N/A N/A N/A
resin ethylbenzene	3500	17800	N/A	17.8	1.5

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
▶s-[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
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute EC50 255 mg/l Fresh water	Algae	72 hours
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
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
[͡ቖ-(2,3-epoxypropoxy)propyl] trimethoxysilane	-	37 % - Not	readily - 28 days	-		-
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 da	ys	-		-
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
bis-[4-(2,3-epoxipropoxi)	-		-		Not read	dily
phenyl]propane benzyl alcohol	-		-		Readily	
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-		-		Not read	dily
reaction product: bisphenol-A-	-		-		Not read	dily
(epichlorhydrin); epoxy resin ethylbenzene	-		-		Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Penzyl alcohol reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	0.87 2.64 to 3.78	- 31	Low Low
ethylbenzene	3.6	79.43	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

•	1	-	1
	DOT	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(xylene)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)
Transport hazard class (es)	9	9	9
Packing group	III	Ш	111
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.
Product RQ (lbs)	12623	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

14. Transport information

Additional inf	ormation
DOT	: The classification

т	: The classification of the product is due solely to the presence of one or more US DOT-listed
	'Hazardous substances' that are subject to reportable quantity requirements and only applies to
	shipments of packages greater than, or equal to, the product reportable quantity. Package sizes
	less than the product reportable quantity are not regulated as hazardous materials.
	loop than the product reportable quantity are not regulated as hazardous materials.

IMDG: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg,
provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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14. Transport information

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

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : All components are active or exempted.

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	: SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 1B
	HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification	
s-[4-(2,3-epoxipropoxi)phenyl	≥20 - ≤50	SKIN IRRITATION - Category 2	
propane		EYE IRRITATION - Category 2A	
		SKIN SENSITIZATION - Category 1B	
titanium dioxide	≥5.0 - ≤10	CARCINOGENICITY - Category 2	
benzyl alcohol	≥1.0 - ≤3.8	ACUTE TOXICITY (oral) - Category 4	
		ACUTE TOXICITY (dermal) - Category 4	
		ACUTE TOXICITY (inhalation) - Category 4	
		EYE IRRITATION - Category 2A	
[3-(2,3-epoxypropoxy)propyl]	≥1.0 - <3.0	SERIOUS EYE DAMAGE - Category 1	
trimethoxysilane			
tetrahydro-2-furylmethanol	≤1.8	FLAMMABLE LIQUIDS - Category 4	
		ACUTE TOXICITY (oral) - Category 4	
		ACUTE TOXICITY (dermal) - Category 4	
		ACUTE TOXICITY (inhalation) - Category 4	
		EYE IRRITATION - Category 2A	
		TOXIC TO REPRODUCTION - Category 1B	
		HNOC - Defatting irritant	
reaction product: bisphenol-A-	<1.0	SKIN IRRITATION - Category 2	
(epichlorhydrin); epoxy resin		EYE IRRITATION - Category 2A	
		SKIN SENSITIZATION - Category 1	
carbon black	≤1.0	COMBUSTIBLE DUSTS	
		CARCINOGENICITY - Category 2	
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2	
		ACUTE TOXICITY (inhalation) - Category 4	
		United States	Page: 15/16

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Section 15. Regulatory information

CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
HNOC - Defatting irritant

SARA 313

Chemical name

: ethylbenzene

CAS number Concentration 100-41-4 0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

Supplier notification

WARNING: Cancer - www.P65Warnings.ca.gov.

Section 16. Other information

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

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

Date of previous issue	: 4	5/3/2023
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.