# **SAFETY DATA SHEET**



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

Section 1. Identification		
Product name	: 🕅 OVAGUARD 5031 DARK GRAY - A	
Product code	: 00462582	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f 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 <u>Emergency telephone</u> <u>number</u>	<ul> <li>PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272</li> <li>(412) 434-4515 (U.S.) (514) 645-1320 (Canada)</li> </ul>	
	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	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>SKIN IRRITATION - Category 2</li> <li>EYE IRRITATION - Category 2A</li> <li>SKIN SENSITIZATION - Category 1</li> <li>CARCINOGENICITY - Category 2</li> <li>TOXIC TO REPRODUCTION - Category 1B</li> </ul>
	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).

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## Section 2. Hazards identification

### GHS label elements

Hazard pictograms



Signal word	1	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: MixtureProduct name: MOVAGUARD 5031 DARK GRAY - A

Product name NOVAGUARD 5031 DARK GRAY - A

# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
barium 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	<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	: 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/	<u>symptoms</u>
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
	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 me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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	<ul> <li>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.</li> </ul>
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.

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### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	<ul> <li>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.</li> <li>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".</li> </ul>
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	ntainment 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
parium sulfate	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Inhalable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m <sup>3</sup> . Form: Total dust.
	TWA 8 hours: 5 mg/m <sup>3</sup> . 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 <sup>3</sup> . Form: respirable
	fraction, finescale particles.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m <sup>3</sup> . 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 <sup>3</sup> . Form: Inhalable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 3.5 mg/m <sup>3</sup> .
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 <sup>3</sup> .

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### Section 8. Exposure controls/personal protection

	re controls/personal protection
	Key to abbreviations
C = Ceiling Limit F = Fume IPEL = Internal Permissible Expo OSHA = Occupational Safety and R = Respirable Z = OSHA 29 CFR 1910.120	Governmental Industrial Hygienists.SR S S S SKin sensitization STEL STEL TD TD Total dust TLV TLV TWA SUbpart Z - Toxic and Hazardous SubstancesSR S S 
Consult local authorities for a	icceptable 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 Environmental exposure controls	<ul> <li>If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.</li> <li>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.</li> </ul>
Individual protection measure	<u>98</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: 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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

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# Section 9. Physical and chemical properties

#### **Appearance**

:	Liquid.
:	Dark grey.
:	Characteristic.
:	Not available.
1	Not applicable.
1	Not available.
:	>37.78°C (>100°F)
:	Closed cup: 251.67°C (485°F) [Product does not sustain combustion.]
:	Not available.
1	Not available.
:	Not available.
1	Not available.
:	1.8
:	15.02
	Media Result
1	cold water Not soluble
:	Not applicable.
1	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
1	93.145

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

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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) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
P	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 <sup>3</sup>	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 <sup>3</sup>	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
s-[4-(2,3-epoxipropoxi)	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

Eyes	There are no o	data available on the mix data available on the mix data available on the mix	ture itself.	
Product/ingredient name	Route of exposure	Species	Result	
▶fs-[4-(2,3-epoxipropoxi) phenyl]propane reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	skin skin	Mouse Mouse	Sensitizing Sensitizing	_

<u>Conclusion/Summary</u>			
Skin	: There a	re no data	available on the mixture itself.
Respiratory	: There a	re no data	available on the mixture itself.
<b>Mutagenicity</b>			
<b>Conclusion/Summary</b>	: There a	re no data	available on the mixture itself.
<b>Carcinogenicity</b>			
Conclusion/Summary	: There a	re no data	available on the mixture itself.
<b>Classification</b>			
Product/ingredient name	OSHA	IARC	NTP
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-
titanium dioxide	-	2B	-
carbon black	-	2B	-
ethylbenzene	-	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**

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

#### **Teratogenicity**

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

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

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

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# Section 11. Toxicological information

**Target organs** 

: 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 ro	outes of exposure	i
Potential acute health eff	<u>ects</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects or o	ritical hazards.
Skin contact	: Causes skin irritation. Defatting	to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or o	ritical hazards.
Over-exposure signs/sym	nptoms	
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:
Okin contact	irritation	the following.
	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	
alayed and immediate off	skeletal malformations	hort and long term expective
	ects and also chronic effects from s	
Conclusion/Summary		he mixture itself. Trimethoxysilanes are capable of
		or ingested. If swallowed, methanol may be harmful or roduct contains TiO2 which has been classified as a
		sed on its IARC 2B classification. For many products,
		I in a liquid coating formulation. In this case, the TiO2
		vith no meaningful potential for human exposure to
		the product is applied with a brush or roller. Sanding
		spray applications may be harmful depending on the
	duration and level of exposure a	nd require the use of appropriate personal protective
	equipment and/or engineering co	ontrols (see Section 8). Exposure to component solven
		of the stated occupational exposure limit may result in
	adverse health effects such as n	nucous membrane and respiratory system irritation and
		iver 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	1	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health effe	<u>ect</u>	<u>S</u>
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	ity	

#### 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 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 resin	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
ethylbenzene	3500	17800	N/A	17.8	1.5

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# 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 - <i>Daphnia magna</i>	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
[3] [3] −(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
ofs-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not read	dily
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.

United States Page: 13/16

Product name NOVAGUARD 5031 DARK GRAY - A

### 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

	DOT	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (xylene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)
		phenyl]propane)	phenyl]propane)
Transport hazard class (es)	9	9	9
Packing group	Ш	Ш	Ш
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 info	rmation
DOT	: 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.
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.
ΙΑΤΑ	: 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.

Date of issue 3 October 2024

Product name NOVAGUARD 5031 DARK GRAY - A

### 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] trimethoxysilane	≥1.0 - <3.0	SERIOUS EYE DAMAGE - Category 1	
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

Product name NOVAGUARD 5031 DARK GRAY - A

### Section 15. Regulatory information

CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
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#### **SARA 313**

**Supplier notification** 

**Chemical name** : ethylbenzene

CAS number 100-41-4

Concentration 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

**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	:	5/3/2023
Organization that prepared the SDS	1	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.