# **SAFETY DATA SHEET**



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

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

Section 1. Identification	
Product name	: NOVAGUARD 5031 TILE RED - A
Product code	: 00462585
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	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.
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	: SKIN IRRITATION - Category 2
substance or mixture	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1B
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 1
	Health Hazards Not Otherwise Classified - Category 1
GHS label elements	
Hazard pictograms	
	<b>v v</b>

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### Section 2. Hazard identification

: Danger
<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Suspected of causing cancer.</li> <li>May damage fertility or the unborn child.</li> <li>Prolonged or repeated contact may dry skin and cause irritation.</li> </ul>
: 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 should not be allowed out of the workplace.
: IF 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. 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.
: Store locked up.
: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<ul> <li>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.</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 7.6% (dermal), 82.7% (inhalation)</li> </ul>

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: ₩OVAGUARD 5031 TILE RED - A
Other means of identification	: Not available.

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

Ingredient name	Synonyms	% (w/w)	CAS number
▶arium sulfate	Sulfuric acid, barium salt (1:1); CI 77120; Barytes; Barium salt of sulfuric acid; Barite; Artificial barite; barium sulphate; C. I. Pigment White 21; barium sulfate, natural; blanc fixe; C.I. 77120	30 - 60*	7727-43-7
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)	15 - 40	1675-54-3
	· · · · · · · · · · · · · · · · · · ·	-	Canada Page: 2/16

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# Section 3. Composition/information on ingredients

	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		
diiron trioxide	Iron oxide (Fe2O3); Iron oxide; C.I. Pigment Red 101; Ferric oxide; Iron oxide, anhydrous; Iron oxide, red; Iron sesquioxide; Iron trioxide; iron oxide pigment; Iron oxide dust and fume (as Fe); Rouge	3 - 7*	1309-37-1
benzyl alcohol	Benzenemethanol; .alpha Hydroxytoluene; Phenylcarbinol; Phenylmethanol; E 1519; α- hydroxytoluene; Phenylmethyl alcohol; toluenol, alpha-; (hydroxymethyl)benzene; BENZENECARBINOL; alpha- Hydroxytoluene	1 - 5*	100-51-6
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Oxirane, 2-[[3-(trimethoxysilyl)propoxy] methyl]-; Silane, trimethoxy[3- (oxiranylmethoxy)propyl]-; 3- (2,3-Epoxypropoxy)propyltrimethoxysilane; (3-(2,3-Epoxypropoxy)propyl) trimethoxysilane; mixture consisting of: — 64 % or more, but not more than 74 % by weight of amorphous silica (CAS RN 7631-86-9) — 25 % or more, but not more than 35 % by weight of butanone (CAS RN 78-93-3) and — not more than 1 % by weight of 3-(2,3-epoxypropoxy) propyltrimethoxysilane (CAS RN 2530-83-8); Silane, 3-(2,3-epoxypropoxy) propyltrimethoxy-; 2,3-Epoxy propoxy propyltrimethoxysilicane; Coupling agent KH-560; Coupler KH-560; 2-{[3- (Trimethoxysilyl)propoxy]methyl}oxirane; (Glycidyloxyalkyl) trialkoxysilane [alkyl (C1-3),alkoxy (C1-2)]	1 - 5*	2530-83-8
tetrahydro-2-furylmethanol	tetrahydro-2-furyl-methanol; tetrahydrofurfuryl alcohol; 2-Furanmethanol, tetrahydro-; 2-TETRAHYDROFURANMETHANOL; 2- (HYDROXYMETHYL) TETRAHYDROFURAN; Tetrahydro- 2-furanylmethanol; THFA; Tetrahydro- 2-furancarbinol; Tetrahydro- 2-furanmethanol; FURFURYL ALCOHOL, TETRAHYDRO-; 2-Hydroxymethyl oxolane	1 - 5*	97-99-4
	1	Car	nada Page: 3/16

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### Section 3. Composition/information on ingredients

ethylbenzene	Benzene, ethyl-; Phenylethane;	0.1 - 1*	100-41-4
	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		
	orchloropropyloxycarbonyl) benzene		

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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 s	symptoms/effects,	acute and delayed

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/sympto	<u>ms</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
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.
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.

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# Section 6. Accidental release measures

Personal precautions, protec	tive 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	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.
Advice on general : occupational hygiene	Wash hands thoroughly after handling.

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## Section 7. Handling and storage

	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

0) 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	<ul> <li>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 10 mg/m<sup>3</sup>.</li> <li>CA British Columbia Provincial (Canada, 8/2023) TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Inhalable.</li> <li>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Inhalable particulate matter</li> <li>CA Quebec Provincial (Canada, 7/2023) TWAEV 8 hours: 5 mg/m<sup>3</sup>. Form: inhalable dust.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013) STEL 15 minutes: 20 mg/m<sup>3</sup>. TWA 8 hours: 10 mg/m<sup>3</sup>.</li> </ul>
bis-[4-(2,3-epoxipropoxi)phenyl]propane diiron trioxide	None. <b>CA Alberta Provincial (Canada, 3/2023)</b> OEL 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable. <b>CA British Columbia Provincial (Canada, 8/2023)</b> TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Total dust. <b>CA Ontario Provincial (Canada, 6/2019)</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable particulate matter <b>CA Quebec Provincial (Canada, 7/2023)</b> TWAEV 8 hours: 5 mg/m <sup>3</sup> (as Fe). Form: dust and fume. <b>CA Saskatchewan Provincial (Canada, 7/2013)</b> STEL 15 minutes: 10 mg/m <sup>3</sup> (measured as Fe). Form: dust and fume. TWA 8 hours: 5 mg/m <sup>3</sup> (measured as Fe). Form: dust and fume.
benzyl alcohol	<b>IPEL (-)</b> TWA: 5 ppm.

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## Section 8. Exposure controls/personal protection

	STEL: 10 ppm.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
tetrahydro-2-furylmethanol	None.
ethylbenzene	CA Alberta Provincial (Canada, 3/2023)
	OEL 8 hours: 100 ppm.
	OEL 8 hours: 434 mg/m <sup>3</sup> .
	OEL 15 minutes: 543 mg/m <sup>3</sup> .
	OEL 15 minutes: 125 ppm.
	CA British Columbia Provincial (Canada,
	8/2023)
	TWA 8 hours: 20 ppm.
	CA Ontario Provincial (Canada, 6/2019)
	TWA 8 hours: 20 ppm.
	CA Quebec Provincial (Canada, 7/2023)
	TWAEV 8 hours: 20 ppm.
	CA Saskatchewan Provincial (Canada,
	7/2013)
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 100 ppm.
	·····

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	:	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.
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	1	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

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# Section 8. Exposure controls/personal protection

Body protection	<ul> <li>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.</li> </ul>
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

<u>Appearance</u>					
Physical state	:	Liquid.			
Color	4	Brownish-red.			
Odor	1	Characteristic.			
Odor threshold	1	Not available.			
рН	÷	Not applicable.			
Melting point	1	Not available.			
Boiling point	1	>37.78°C (>100°F)			
Flash point	1	Closed cup: 251.67°C (485°F) [Product does not sustain combustion.]			
Auto-ignition temperature	1	Not available.			
Decomposition temperature	1	Not available.			
Flammability	1	Not available.			
Lower and upper explosive (flammable) limits	:	Not available.			
Evaporation rate	:	Not available.			
Vapor pressure	:	Not available.			
Vapor density	:	Not available.			
Relative density	:	1.87			
Density(lbs / gal)	:	15.61			
Solubility(ies)		Media Result			
Solubility(les)	ľ	cold water Not soluble			
Partition coefficient: n- octanol/water	:	Not applicable.			
Viscosity	:	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)			
% Solid. (w/w)	:	93.397			

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### Section 10. Stability and reactivity

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

# Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
parium 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	-
	LD50 Oral	Rat	15000 mg/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/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] trimethoxysilane	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
	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	-
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 Irritation/Corrosion

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## Section 11. Toxicological information

Product/ingredient name	Resu	ilt		Species	Sco	ore	Exposure	Observatio
øis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant			Rabbit	-		24 hours	-
		- Redness inctivae	of the	Rabbit	0.4		24 hours	-
		- Edema		Rabbit	0.5		4 hours	-
	Skin - Erythema/Eschar Skin - Mild irritant			Rabbit Rabbit	0.8		4 hours 4 hours	-
- · · · ·	SKIII		11	Rabbit	-		4 110015	-
Conclusion/Summary								
Skin				le on the mixt				
Eyes				le on the mixt				
Respiratory	: The	re are no d	ala avallad	le on the mixt	ure itse	11.		
Sensitization			1			1		
Product/ingredient name	Route expos		Species			Result		
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin		Mouse			Sensitiz	ing	
Skin	: The	re are no d	ata availab	le on the mixt	ure itse	lf.		
Respiratory	: The	re are no d	ata availab	le on the mixt	ure itse	lf.		
<u>Autagenicity</u>								
Conclusion/Summary	: The	re are no d	ata availab	le on the mixt	ure itse	lf.		
Carcinogenicity								
Conclusion/Summary	• The	re are no d	ata availah	le on the mixt	ure itse	If		
Classification	• • • • •							
Product/ingredient name		OSHA	IARC	NTP				
bis-[4-(2,3-epoxipropoxi)phe	nyl]	-	3	-				
propane								
diiron trioxide		-	3 2B	-				
ethylbenzene		-	20	-				
Carcinogen Classification IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	4 a human	carcinogen;	Reasonably	anticipated to be	e a huma	n carcinog	en	
Reproductive toxicity								
Conclusion/Summary	: The	re are no d	ata availab	le on the mixt	ure itse	lf.		
<b>eratogenicity</b>								
Conclusion/Summary	: The	re are no d	ata availab	le on the mixt	ure itse	lf.		
Specific target organ toxici	<u>ty (sing</u>	<u>le exposur</u>	<u>e)</u>					
Not available.			-					
Specific target organ toxici	<u>ty (repe</u>	ated expos	<u>sure)</u>					
Name				Category		Route of exposure		get organs
ethylbenzene				Category 2	-		hea	ring organs
-					1			0 0

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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, skin, eyes, central nervous system (CNS), testes.

#### **Aspiration hazard**

Name	Result
ethylbenzene	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

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

	There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. 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,
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### Section 11. Toxicological information

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 longterm exposure by oral, inhalation and dermal routes of exposure and eye contact. Short term exposure **Potential immediate** : There are no data available on the mixture itself. effects **Potential delayed effects** : There are no data available on the mixture itself. Long term exposure : There are no data available on the mixture itself. **Potential immediate** effects Potential delayed effects : There are no data available on the mixture itself. Potential chronic health effects General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. : No known significant effects or critical hazards. **Mutagenicity Reproductive toxicity** : May damage fertility or the unborn child.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
NOVAGUARD 5031 TILE RED - A	24823.2	4555.0	N/A	192.8	7.2
barium sulfate	N/A	2500	N/A	N/A	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	N/A	N/A	N/A	N/A
tetrahydro-2-furylmethanol	1600	1220	N/A	19.63	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

### Section 12. Ecological information

# <u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
øls-[4-(2,3-epoxipropoxi) ohenyl]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
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours

Product name NOVAGUARD 5031 TILE RED - A

### Section 12. Ecological information

Chronic NOEC 1 mg/l Fresh water

Daphnia - Ceriodaphnia dubia

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### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
[6] -(2,3-epoxypropoxy)propyl] trimethoxysilane	-	37 % - Not readily -	28 days	-	-
ethylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not readily
benzyl alcohol	-		-		Readily
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-		-		Not readily
ethylbenzene	-		-		Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	0.87	-	Low
ethylbenzene	3.6	79.43	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

## Section 13. Disposal considerations

: 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. 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

Product name NOVAGUARD 5031 TILE RED - A

### Section 14. Transport information

	TDG	IMDG	ΙΑΤΑ
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.
	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)
Transport hazard class (es)	9	9	9
Packing group	III	III	II
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### Additional information TDG : Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail. IMDG : This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ 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. : This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, ΙΑΤΑ provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport in bulk according : Not applicable. to IMO instruments **Proof of classification** : Product classified as per the following sections of the Transportation of Dangerous statement Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).

### Section 15. Regulatory information

#### National Inventory List

Canada inventory (DSL) : Kil c

: MI components are listed or exempted.

### 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 issue/Date of<br/>revision3 October 2024Organization that prepared<br/>the SDS: EHS

Product name NOVAGUARD 5031 TILE RED - A

### Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
-	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
Indicatos information the	hat has changed from providually issued version

#### 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.