SAFETY DATA SHEET



Date of issue/Date of revision 20 June 2024 Version 3

Section 1. Identification		
Product name	: NOVAGUARD 5041 GRAY 101 - A	
Product code	: 00462679	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	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 <u>Emergency telephone</u> <u>number</u>	 PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272 (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: 26.2% (oral), 74.4% (dermal), 71.5% (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).

United States

Page: 1/15

Product name NOVAGUARD 5041 GRAY 101 - A

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	: IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: 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. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. 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: NOVAGUARD 5041 GRAY 101 - A

United States Page: 2/15

Version 3

Product name NOVAGUARD 5041 GRAY 101 - A

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	≥20 - ≤50	9003-36-5
Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)	≥20 - ≤50	28064-14-4
titanium dioxide	≥10 - ≤20	13463-67-7
benzyl alcohol	≥5.0 - ≤8.5	100-51-6
Talc , not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6
tetrahydro-2-furylmethanol	≥1.0 - ≤5.0	97-99-4
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.0 - <3.0	2530-83-8
propylidynetrimethanol	≤1.0	77-99-6

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 ef	fects
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/syr	mptoms
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
	United States Page: 3/15

Product name NOVAGUARD 5041 GRAY 101 - A

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
	skeletal mailormations
Indication of immediate me	dical 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 halogenated compounds metal oxide/oxides Formaldehyde.
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.

Product name NOVAGUARD 5041 GRAY 101 - A

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	 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. 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.

United States Page: 5/15

Product name NOVAGUARD 5041 GRAY 101 - A

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
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	None.
Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)	None.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 7/2023).
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable
	fraction, finescale particles
benzyl alcohol	IPEL (-).
	TWA: 5 ppm
	STEL: 10 ppm
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 7/2023).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m ³
tetrahydro-2-furylmethanol	None.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
propylidynetrimethanol	None.
Key to abbreviations	
A = Acceptable Maximum Peak	S = Potential skin absorption

A	= Acceptable Maximum Peak	S	Potential skin absorption
ACGIH	 American Conference of Governmental Industrial Hygienists. 	SR	 Respiratory sensitization
С	= Ceiling Limit	SS	 Skin sensitization
F	= Fume	STEL	 Short term Exposure limit values
IPEL	 Internal Permissible Exposure Limit 	TD	= Total dust
OSHA	 Occupational Safety and Health Administration. 	TLV	= Threshold Limit Value
R	= Respirable	TWA	 Time Weighted Average

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances Ζ

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring : 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.

> **United States** Page: 6/15

Product name NOVAGUARD 5041 GRAY 101 - A

Section 8. Exposure controls/personal protection

•	
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 meas	<u>ures</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.

Section 9. Physical and chemical properties

	United States Page	: 7/15
Flash point	: Closed cup: 251.67°C (485°F) [Product does not sustain combustion.]	
Boiling point	: >37.78°C (>100°F)	
Melting point	: Not available.	
Odor threshold pH	Not available.	
Odor Odor three hold	: Characteristic. : Not available.	
Color	: Grayish-white.	
Physical state	: Liquid.	
Appearance		

Product name NOVAGUARD 5041 GRAY 101 - A

Section 9. Physical and chemical properties

Auto-ignition temperature	: Not available.			
Decomposition temperature	: Not available.			
Flammability	: Not available.			
Lower and upper explosive (flammable) limits	: Not available.			
Evaporation rate	: Not available.			
Vapor pressure	: Not available.			
Vapor density	: Not available.			
Relative density	: 1.32			
Density(lbs / gal)	: 11.02			
	Media	Result		
Solubility(ies)	cold water	Not soluble		
Partition coefficient: n- octanol/water	: Not applicable.]	
Viscosity	: Kinematic (40°C (10	04°F)): >21 mm²/s (>21 cSt)		
Volatility	: 13% (v/v), 9.901% (w/w)			
% Solid. (w/w)	: 90.099			

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 halogenated compounds Formaldehyde. metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Product name NOVAGUARD 5041 GRAY 101 - A

Section 11. Toxicological information

	<u> </u>					
Product/ingredient name	Result			Species	Dose	Exposure
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	LD50 Oral			Rat	>10000 mg/kg	-
titanium dioxide	LC50 Inhal LD50 Derm LD50 Oral		and mists	Rat Rabbit Rat	>6.82 mg/l >5000 mg/kg >5000 mg/kg	4 hours - -
benzyl alcohol	LC50 Inhal LD50 Derm LD50 Oral		and mists	Rat Rabbit Rat	>4178 mg/m ³ 2000 mg/kg 1.23 g/kg	4 hours - -
tetrahydro-2-furylmethanol	LC50 Inhal LD50 Derm LD50 Oral		r	Rat Rabbit Rat	19630 mg/m ³ 1.22 g/kg 1600 mg/kg	4 hours -
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhal	ation Dusts	and mists	Rat	>5.3 mg/l	- 4 hours
propylidynetrimethanol	LD50 Oral LD50 Derm LD50 Oral	nal		Rat Rabbit Rat	7.01 g/kg 10 g/kg 14000 mg/kg	-
Conclusion/Summary	: There are	no data av	vailable on th	ne mixture itself.		
Irritation/Corrosion						
Conclusion/Summary						
Skin	: There are	no data av	vailable on th	ne mixture itself.		
Eyes	: There are	no data av	vailable on th	ne mixture itself.		
Respiratory	: There are	e no data av	vailable on th	ne mixture itself.		
Sensitization						
<u>Conclusion/Summary</u> Skin	• Thoro are	no data a	vailable on th	ne mixture itself.		
				ne mixture itself.		
Respiratory Mutagonicity	. mere are	no uata a				
Mutagenicity	. There are	no dota a	ailabla ar th	o mixturo ita-lf		
Conclusion/Summary	: i nere are	no data a	valiable on th	ne mixture itself.		
Carcinogenicity	. There are	una data av	vailable an th	a maintuma ita alf		
Conclusion/Summary Classification	: There are	e no data av	valiable on tr	ne mixture itself.		
Product/ingredient name	OSHA	IARC	NTP			_
titanium dioxide	-	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.

Product name NOVAGUARD 5041 GRAY 101 - A

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

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, cardiovascular system, upper respiratory tract, eyes, central nervous system (CNS), testes.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

r otomiai adate nearti encoto	
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
	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

Product name NOVAGUARD 5041 GRAY 101 - A

Section 11. Toxicological information

Conclusion/Summary	re are no data available on the mixture itself. Trir	
	ning methanol if hydrolyzed or ingested. If swallow or cause blindness. This product either contains	s formaldehyde or is capable of
	asing formaldehyde above 0.5 ppm under certain	
	<i>w</i> n cancer hazard, a skin sensitizer and a respirat ains TiO2 which has been classified as a GHS C	
	C 2B classification. For many products, TiO2 is u	
	ing formulation. In this case, the TiO2 particles a	
	ningful potential for human exposure to unbound oplied with a brush or roller. Sanding the coating	
	ications may be harmful depending on the duration	
	ire the use of appropriate personal protective equ	
	rols (see Section 8). Exposure to component sol ess of the stated occupational exposure limit may	
	as mucous membrane and respiratory system in	
	eys, liver and central nervous system. Symptom	
	iness, fatigue, muscular weakness, drowsiness a sciousness. Solvents may cause some of the abo	
	skin. There is some evidence that repeated expo	sure to organic solvent vapors in
	bination with constant loud noise can cause grea	
	n exposure to noise alone. If splashed in the eyes reversible damage. Ingestion may cause nausea	
	s into account, where known, delayed and immed	diate effects and also chronic
	cts of components from short-term and long-term nal routes of exposure and eye contact.	exposure by oral, inhalation and
Short term exposure		
Potential immediate effects	re are no data available on the mixture itself.	
Potential delayed effects	re are no data available on the mixture itself.	
Long term exposure		
Potential immediate effects	re are no data available on the mixture itself.	
Potential delayed effects	re are no data available on the mixture itself.	
Potential chronic health eff		
General	onged or repeated contact can defat the skin and natitis. Once sensitized, a severe allergic reactio osed to very low levels.	
Carcinogenicity	pected of causing cancer. Risk of cancer depend osure.	ds on duration and level of
Mutagenicity	nown significant effects or critical hazards.	
Reproductive toxicity	damage fertility or the unborn child.	
Numerical measures of toxic		
Acute toxicity estimates		

Product name NOVAGUARD 5041 GRAY 101 - A

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
NOVAGUARD 5041 GRAY 101 - A	10194.2	4392.1	N/A	176.4	6.6
benzyl alcohol	1230	2000	N/A	N/A	1.5
tetrahydro-2-furylmethanol	1600	1220	N/A	19.63	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	N/A 10000	N/A N/A	N/A N/A	N/A N/A
propylidynetrimethanol	14000	10000	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Acute LC50 2.54 mg/l	Fish	96 hours
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/Ĭ	Fish	96 hours
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
[8] −(2,3-epoxypropoxy)propyl] trimethoxysilane	-	37 % - Not readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
benzyl alcohol [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-		-		Readily Not readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	Low
benzyl alcohol propylidynetrimethanol	0.87 -0.47	-	Low Low

Mobility in soil

United States	Page: 12/15

Product name NOVAGUARD 5041 GRAY 101 - A

Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and 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	ΙΑΤΑ
UN number	Not regulated.	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))	✔ Peosin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))
Transport hazard class (es)	-	9	9
Packing group	-	Ш	111
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(Époxy Resin)	Not applicable.

14. Transport information

Additional information

DOT	: None identified.
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.

Product name NOVAGUARD 5041 GRAY 101 - 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
Formaldehyde, oligomeric	≥20 - ≤50	SKIN IRRITATION - Category 2
reaction products with 1-chloro- 2,3-epoxypropane and phenol		SKIN SENSITIZATION - Category 1B
Phenol, polymer with	≥20 - ≤50	SKIN IDDITATION Cotogon 2
	220 - 200	SKIN IRRITATION - Category 2
formaldehyde, glycidyl ether		EYE IRRITATION - Category 2A
(MW<=700)	>10 <00	SKIN SENSITIZATION - Category 1B
titanium dioxide	≥10 - ≤20	CARCINOGENICITY - Category 2
benzyl alcohol	≥5.0 - ≤8.5	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
	5.5.0 44.0	EYE IRRITATION - Category 2A
Talc , not containing asbestiform	≥5.0 - ≤10	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
tetrahydro-2-furylmethanol	≥1.0 - ≤5.0	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
[3-(2,3-epoxypropoxy)propyl]	≥1.0 - <3.0	SERIOUS EYE DAMAGE - Category 1
trimethoxysilane		
propylidynetrimethanol	≤1.0	TOXIC TO REPRODUCTION - Category 2

United States Page: 14/15

Product name NOVAGUARD 5041 GRAY 101 - A

Section 15. Regulatory information

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

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 1 Physical hazards : 0 (*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Ass	sociation (U.S.A.)
Health : 3 Flamma	ability : 1 Instability : 0
Date of previous issue	: 7/10/2023
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.