SAFETY DATA SHEET



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

Section 1. Identi	fication
Product name	: NOVAGUARD 5041 BLACK - A
Product code	: 00462662
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> number	 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

Signal word	: Danger United States Page: 1/16
Hazard pictograms	
GHS label elements	
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 27.3% (oral), 80.5% (dermal), 82.2% (inhalation)
	SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B
Classification of the substance or mixture	: ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Product name NOVAGUARD 5041 BLACK - A

Section 2. Hazards identification

Hazard statements Precautionary statements	 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. Suspected of causing cancer. May damage fertility or the unborn child.
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. Use only outdoors or in a well-ventilated area. 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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. 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. Immediately call a POISON CENTER or doctor.
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	1	Mixture
Product name	:	NOVAGUARD 5041 BLACK - A

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
benzyl alcohol	≥5.0 - ≤8.1	100-51-6
Talc , not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	≥1.0 - ≤6.0	25068-38-6
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.0 - ≤5.0	2530-83-8
tetrahydro-2-furylmethanol	≥1.0 - ≤3.9	97-99-4
carbon black	≥1.0 - ≤5.0	1333-86-4
	United	States Page: 2/16

Product name NOVAGUARD 5041 BLACK - A

Section 3. Composition/information on ingredients

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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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 effects	
Eye contact :	Causes serious eye damage.
Inhalation :	Harmful if inhaled.
Skin contact :	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
-	No known significant effects or critical hazards.
Over-exposure signs/symptor	<u>ns</u>
Eye contact :	Adverse symptoms may include the following: pain 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: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Product name NOVAGUARD 5041 BLACK - A

Section 4. First aid measures

Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
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 inform	nation (Section 11)	
occ toxicological inform		

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe 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	nta	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handli	ng
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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	: 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.
	United States Page: 5/16

Section 7. Handling and storage

Conditions for safe storage,	: Do not store above the following temperature: 50°C (122°F). Store in accordance with
including any	local regulations. Store in original container protected from direct sunlight in a dry, cool
incompatibilities	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.
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
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	None.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
tetrahydro-2-furylmethanol	None.
carbon black	ACGIH TLV (United States, 7/2023).
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable fraction
	OSHA PEL (United States, 5/2018). TWA: 3.5 mg/m ³ 8 hours.
	TWA: 5.5 mg/m - 6 hours.
Key to abbreviations	
A = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hydienists.	S = Potential skin absorption SR = Respiratory sensitization
ACGIH = American Conference of Governmental Industrial Hygienists. C = Ceiling Limit	SR = Respiratory sensitization 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 Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances 	TWA = Time Weighted Average
Consult local authorities for acceptable exposure limits.	
· · ·	
	priate monitoring standards. Reference to national the determination of hazardous substances will
	Jse process enclosures, local exhaust ventilation or

Product name NOVAGUARD 5041 BLACK - A

Section 8. Exposure controls/personal protection

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 and face shield.
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.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Black.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 251.67°C (485°F) [Product does not sustain combustion.]
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

United States Page: 7/16

Product name NOVAGUARD 5041 BLACK - A

Section 9. Physical and chemical properties

:	Not available.				
-	Not available.				
:	Not available.				
:	Not available.	Not available.			
:	Not available.				
:	1.21				
:	10.1				
	Media	Result			
:	cold water	Not soluble			
:	Not applicable.				
	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)				
:	Kinematic (40°C (10-	4°F)): >21 mm²/s (>21 c	St)		
	Kinematic (40°C (10 13% (v/v), 10.788%		St)		
		:	 Not available. Not available. Not available. Not available. 1.21 10.1 Media Result cold water Not soluble 		

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 BLACK - A

Section 11. Toxicological information

Product/ingredient name	Result		Species		Dos	e	Exposure
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	LD50 Oral	Rat		>100	00 mg/kg	-	
benzyl alcohol	LC50 Inhalation Dusts and r	nists	Rat		>417	8 mg/m³	4 hours
-	LD50 Dermal		Rabbit			mg/kg	-
	LD50 Oral		Rat		1.23	g/kg	-
reaction product: bisphenol-A- (epichlorohydrin); epoxy resin	LD50 Dermal		Rabbit		>2 g/	kg	-
	LD50 Oral		Rat		>2 g/	kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhalation Dusts and r	nists	Rat				4 hours
-	LD50 Oral		Rat		7.01 g/kg		-
tetrahydro-2-furylmethanol	LC50 Inhalation Vapor		Rat			· J.	4 hours
	LD50 Dermal		Rabbit		1.22		-
	LD50 Oral		Rat			mg/kg	-
carbon black	LD50 Oral		Rat		>10 g	g/kg	-
Conclusion/Summary rritation/Corrosion	: There are no data available	e on th	ne mixture	e itself.			
Product/ingredient name	Result	Spec	ies	Score		Exposure	Observation
eaction product: bisphenol-A- (epichlorohydrin); epoxy resin	Eyes - Mild irritant	Rabb	obit - obit -			100 mg	-
	Eyes - Moderate irritant	Rabb				-	-
	Skin - Moderate irritant	Rabb				-	-
	Skin - Moderate irritant	Rabb			24 hours 50 Ul		-
Skin - Severe irritant Rabbit		-		24 hours 2 mg	-		

Conclusion/Summary

|--|

- : There are no data available on the mixture itself. Eyes
- Respiratory

Skin

: There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
eaction product: bisphenol-A- (epichlorohydrin); epoxy resin	skin	Mouse	Sensitizing
Conclusion/Summary			

<u>Conclusion/Summary</u>	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.

Section 11. Toxicological information

Classification

Product/ingredient name	OSHA	IARC	NTP
carbon black	-	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)

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

: Causes serious eye damage. : Harmful if inhaled.
Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: No known significant effects or critical hazards.
<u>toms</u>
: Adverse symptoms may include the following: pain watering redness
: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Product name NOVAGUARD 5041 BLACK - A

Section 11. Toxicological information

	-	
Skin contact	÷	Adverse symptoms may include the following:
		pain or irritation redness
		dryness
		cracking
		blistering may occur
		reduced fetal weight
		increase in fetal deaths
		skeletal malformations
Ingestion	1	Adverse symptoms may include the following:
5		stomach pains
		reduced fetal weight
		increase in fetal deaths
		skeletal malformations
Delayed and immediate effect	ts :	and also chronic effects from short and long term exposure
Conclusion/Summary	:	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. 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. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate		There are no data available on the mixture itself.
effects	1	
Potential delayed effects		There are no data available on the mixture itself.
Long term exposure	1	
		There are no data available on the minture itself
Potential immediate effects	÷	There are no data available on the mixture itself.
Potential delayed effects		There are no data available on the mixture itself.
Potential chronic health effe	ect	<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.
	1	may damage for any or the amount online.

Section 11. Toxicological information

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/ I)
NOVAGUARD 5041 BLACK - A	7286.2	2313.5	N/A	101.1	3.8
benzyl alcohol	1230	2000	N/A	N/A	1.5
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	2500	2500	N/A	N/A	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane tetrahydro-2-furylmethanol	7010 1600	N/A 1220	N/A N/A	N/A 19.63	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
reaction product: bisphenol-A- (epichlorohydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
-(2,3-epoxypropoxy)propyl] Acute EC50 255 mg/l Fresh water		Algae	72 hours
	Acute EC50 473 mg/l Acute LC50 55 mg/l	Daphnia Fish	48 hours 96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
eaction product: bisphenol-A- (epichlorohydrin); epoxy resin [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	OECD 301F -	5 % - 28 da 37 % - Not	ys readily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Penzyl alcohol reaction product: bisphenol-A- (epichlorohydrin); epoxy resin [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-		-		Readily Not read Not read	,

Bioaccumulative potential

Product name NOVAGUARD 5041 BLACK - A

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol benzyl alcohol reaction product: bisphenol-A- (epichlorohydrin); epoxy resin	2.7 0.87 2.64 to 3.78	- - 31	Low Low Low

Mobility in soil

Soil/water partition coefficient (Koc)

14 Transport information

: 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

1.	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Æpoxy Resin, Phenol, polymer with formaldehyde, glycidyl	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Epoxy Resin, Phenol, polymer with formaldehyde,
	with formaldehyde, glycidyl	polymer with formaldehyde,
	9	9
	Ш	
	Yes.	Yes.

Product name NOVAGUARD 5041 BLACK - A

14. Transport information

Marine pollutant	Not applicable.	🕼 (Æpoxy Resin)	Not applicable.
substances			

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.

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 : ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 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-		SKIN SENSITIZATION - Category 1B
2,3-epoxypropane and phenol	≥20 - ≤50	
Phenol, polymer with formaldehyde, glycidyl ether	≥20 - ≥50	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
(MW<=700)		SKIN SENSITIZATION - Category 1B
benzyl alcohol	≥5.0 - ≤8.1	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
	>= 0 <10	
Talc , not containing asbestiform	≥5.0 - ≤10	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		United States Page: 14/16

Section 15. Regulatory information

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fibres		(Respiratory tract irritation) - Category 3
reaction product: bisphenol-A-	≥1.0 - ≤6.0	SKIN IRRITATION - Category 2
(epichlorohydrin); epoxy resin		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
[3-(2,3-epoxypropoxy)propyl]	≥1.0 - ≤5.0	SERIOUS EYE DAMAGE - Category 1
trimethoxysilane		
tetrahydro-2-furylmethanol	≥1.0 - ≤3.9	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
carbon black	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
		CARCINOGENICITY - Category 2

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

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 Association (U.S.A.)

Health : 3 Flammability : 1 Instability : 0	
Date of previous issue	: 7/14/2023
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

United States Page: 15/16

Section 16. Other information

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.