# SAFETY DATA SHEET



Date of issue/Date of revision 20 June 2024

**Version 3** 

### **Section 1. Identification**

Product name : NOVAGUARD 5041 DARK GRAY - A

Product code : 00462670

Other means of : Not available.

identification Product type

: Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications, Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

Emergency telephone

number

(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: 26.3%

(oral), 74.9% (dermal), 72% (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: 1/16

**Product code 00462670** 

Date of issue 20 June 2024

Version 3

Product name NOVAGUARD 5041 DARK GRAY - 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 : Mixture

Product name : NOVAGUARD 5041 DARK GRAY - A

United States Page: 2/16

#### Product name NOVAGUARD 5041 DARK GRAY - A

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane	≥20 - ≤50	9003-36-5
and phenol		
Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)	≥20 - ≤50	28064-14-4
titanium dioxide	≥5.0 - ≤10	13463-67-7
benzyl alcohol	≥5.0 - ≤8.3	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
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	<1.0	25068-38-6
carbon black	≤1.0	1333-86-4
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 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

United States Page: 3/16

Product name NOVAGUARD 5041 DARK GRAY - A

### Section 4. First aid measures

**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

#### Indication of immediate medical attention and special treatment needed, if necessary

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

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

Unsuitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

media

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

: None known.

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.

**United States** Page: 4/16 Product code 00462670

Date of issue 20 June 2024 Version 3

Product name NOVAGUARD 5041 DARK GRAY - A

### Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment 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: 5/16

Product name NOVAGUARD 5041 DARK GRAY - 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.

including any incompatibilities

Conditions for safe storage, : 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

None.  OSHA PEL (United States, 5/2018).  TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 7/2023).  TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles  IPEL (-).  TWA: 5 ppm  STEL: 10 ppm
OSHA PEL (United States, 5/2018).  TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 7/2023).  TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles  IPEL (-).  TWA: 5 ppm  STEL: 10 ppm
TWA: 15 mg/m³ 8 hours. Form: Total dust <b>ACGIH TLV (United States, 7/2023).</b> TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles <b>IPEL (-).</b> TWA: 5 ppm STEL: 10 ppm
ACGIH TLV (United States, 7/2023).  TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles  IPEL (-).  TWA: 5 ppm  STEL: 10 ppm
fraction, finescale particles  IPEL (-).  TWA: 5 ppm  STEL: 10 ppm
IPEL (-). TWA: 5 ppm STEL: 10 ppm
TWA: 5 ppm STEL: 10 ppm
STEL: 10 ppm
• •
ACGIH TLV (United States, 7/2023).
TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
OSHA PEL Z3 (United States).
TWA: 2 mg/m³
None.
None.
None.
ACGIH TLV (United States, 7/2023).
TWA: 3 mg/m³ 8 hours. Form: Inhalable
fraction
OSHA PEL (United States, 5/2018).
TWA: 3.5 mg/m³ 8 hours.
None.
_

#### = Acceptable Maximum Peak S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization С = Ceiling Limit SS = Skin sensitization = 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 = Respirable TWA = Time Weighted Average R = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

**United States** Page: 6/16

Product name NOVAGUARD 5041 DARK GRAY - A

## Section 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring**: Reference should be made to appropriate monitoring standards. Reference to national quidance 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 measures**

**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 Skin protection **Hand protection** 

: Chemical splash goggles.

: 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 Body protection**  : butyl rubber

: 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.

> **United States** Page: 7/16

Product name NOVAGUARD 5041 DARK GRAY - A

### Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Color : Dark grey. Odor : Characteristic. : Not available. **Odor threshold** : Not applicable. pН **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. **Flammability** : Not available. Lower and upper explosive : Not available.

(flammable) limits **Evaporation rate** 

: Not available.

Vapor pressure : Not available. Vapor density : Not available.

: 1.31 **Relative density** : 10.93 Density (lbs/gal)

Media Result

Solubility(ies) cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

**Viscosity** : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

: 13% (v/v), 10.041% (w/w) Volatility

% Solid. (w/w) 89,959

# Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**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.

**United States** Page: 8/16

Product name NOVAGUARD 5041 DARK GRAY - A

### Section 10. Stability and reactivity

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/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 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rabbit Rat	>6.82 mg/l >5000 mg/kg >5000 mg/kg	4 hours - -
benzyl alcohol	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rabbit Rat	>4178 mg/m³ 2000 mg/kg 1.23 g/kg	4 hours - -
tetrahydro-2-furylmethanol	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	19630 mg/m³ 1.22 g/kg 1600 mg/kg	4 hours - -
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
reaction product: bisphenol-A- (epichlorohydrin); epoxy resin	LD50 Oral LD50 Dermal	Rat Rabbit	7.01 g/kg >2 g/kg	-
carbon black propylidynetrimethanol	LD50 Oral LD50 Oral LD50 Dermal	Rat Rat Rabbit	>2 g/kg >10 g/kg 10 g/kg	-  -  -
-	LD50 Oral	Rat	14000 mg/kg	-

### Conclusion/Summary

: There are no data available on the mixture itself.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorohydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-

#### **Conclusion/Summary**

Skin Eyes Respiratory

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

**Sensitization** 

United States Page: 9/16

#### Product name NOVAGUARD 5041 DARK GRAY - A

### **Section 11. Toxicological information**

• • • • • • • • • • • • • • • • • • • •	Route of exposure	Species	Result
reaction product: bisphenol-A- (epichlorohydrin); epoxy resin		Mouse	Sensitizing

**Conclusion/Summary** 

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.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
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	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

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

Not available.

<u>Target organs</u>: Contains material which causes damage to the following organs: blood, liver, heart,

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

**Eye contact** : Causes serious eye irritation.

United States Page: 10/16

#### Product name NOVAGUARD 5041 DARK GRAY - A

## Section 11. Toxicological information

**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

#### **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. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure 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, fatique, 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

United States Page: 11/16

#### Product name NOVAGUARD 5041 DARK GRAY - A

### Section 11. Toxicological information

Potential immediate

effects

: There are no data available on the mixture itself.

**5**.........

**Potential delayed effects** 

: There are no data available on the mixture itself.

Long 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.

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.

**Mutagenicity**: No known significant effects or critical hazards.

**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/ I)
NOVAGUARD 5041 DARK GRAY - A	10028.5	4234.7	N/A	170.8	6.4
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	N/A	N/A	N/A
reaction product: bisphenol-A-(epichlorohydrin);	2500	2500	N/A	N/A	N/A
epoxy resin					
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/l	Fish	96 hours
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin		Daphnia	21 days
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

United States Page: 12/16

Product code 00462670 Date of issue 20 June 2024

Version 3

Product name NOVAGUARD 5041 DARK GRAY - A

## **Section 12. Ecological information**

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
[8-(2,3-epoxypropoxy)propyl] trimethoxysilane		37 % - Not readily - 28 days	-	-
reaction product: bisphenol-A- (epichlorohydrin); epoxy resin	OECD 301F	5 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
lenzyl alcohol [3-(2,3-epoxypropoxy)propyl]	-	-	Readily Not readily
trimethoxysilane reaction product: bisphenol-A- (epichlorohydrin); epoxy resin	-	-	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 reaction product: bisphenol-A- (epichlorohydrin); epoxy resin propylidynetrimethanol	0.87 2.64 to 3.78 -0.47	31	Low Low

### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

: 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

United States Page: 13/16

#### Product name NOVAGUARD 5041 DARK GRAY - A

### 14. Transport information

	DOT	IMDG	IATA
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))	Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))
Transport hazard class (es)	-	9	9
Packing group	-	III	III
<b>Environmental hazards</b>	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(Epoxy Resin)	Not applicable.

#### **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.

in 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** 

United States Page: 14/16

#### Product name NOVAGUARD 5041 DARK GRAY - A

# Section 15. Regulatory information

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-		SKIN SENSITIZATION - Category 1B
2,3-epoxypropane and phenol		
Phenol, polymer with	≥20 - ≤50	SKIN IRRITATION - Category 2
formaldehyde, glycidyl ether		EYE IRRITATION - Category 2A
(MW<=700)		SKIN SENSITIZATION - Category 1B
titanium dioxide	≥5.0 - ≤10	CARCINOGENICITY - Category 2
benzyl alcohol	≥5.0 - ≤8.3	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		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
50 (0.0	>4.0 .00	HNOC - Defatting irritant
[3-(2,3-epoxypropoxy)propyl]	≥1.0 - <3.0	SERIOUS EYE DAMAGE - Category 1
trimethoxysilane	-1.0	CIVIN IDDITATION Cotomon 2
reaction product: bisphenol-A-	<1.0	SKIN IRRITATION - Category 2
(epichlorohydrin); epoxy resin		EYE IRRITATION - Category 2A
carbon black	≤1.0	SKIN SENSITIZATION - Category 1 COMBUSTIBLE DUSTS
Carbon black	1.0	CARCINOGENICITY - Category 2
propylidypetrimethanol	≤1.0	TOXIC TO REPRODUCTION - Category 2
propylidynetrimethanol	≥1.0	TOAIC TO REPRODUCTION - Galegory 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

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

United States Page: 15/16

#### Product name NOVAGUARD 5041 DARK GRAY - A

### 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 : 7/10/2023

Organization that prepared

the SDS

Key to abbreviations : ATE = Acute Toxicity Estimate

: EHS

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

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.

United States Page: 16/16