SAFETY DATA SHEET



Date of issue/Date of revision 25 May 2022 Version 8.01

Section 1. Identification		
Product name	: GRAY PRIMER EPOXY	
Product code	: PCMA70105	
Other means of identification	: Not available.	
Product type	: Powder.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (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	: 1-888-774-2001 (US and Canada)	

Section 2. Hazards identification

OSHA/HCS status Classification of the substance or mixture	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). COMBUSTIBLE DUSTS CARCINOGENICITY - Category 1A
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 15.3% (oral), 15.3% (dermal), 82.4% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: May cause cancer. May form combustible dust concentrations in air.
Precautionary statements	

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Product name GRAY PRIMER EPOXY

Section 2. Hazards identification

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.
Response	: IF exposed or concerned: 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	: Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces No smoking. Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Prevent dust accumulation. Emits toxic fumes when heated.
Hazards not otherwise classified	: Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: GRAY PRIMER EPOXY

Ingredient name	%	CAS number
Wollastonite	≥10 - ≤20	13983-17-0
titanium dioxide	≥10 - ≤20	13463-67-7
proprietary polyester resin	≥1.0 - ≤5.0	Not available.
carbon black	≤1.0	1333-86-4
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7

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.
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Section 4. First aid measures

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

icts
: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
<u>ptoms</u>
: Adverse symptoms may include the following: irritation redness
: Adverse symptoms may include the following: respiratory tract irritation coughing
: No specific data.
: No specific data.
dical attention and special treatment needed, if necessary
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
: No specific treatment.
: 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 dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

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Section 5. Fire-fighting measures

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. 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	onta	ainment and cleaning up
Small spill	:	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and

Section 7. Handling and storage

Precautions for safe handling Protective measures 21 Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. 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 dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. 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. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by **United States** Page: 4/13

Section 13 for waste disposal.

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Product name GRAY PRIMER EPOXY

Section 7. Handling and storage

Special precautions	 grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. 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.
Conditions for safe storage, including any incompatibilities	: Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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
Wollastonite	ACGIH TLV (United States, 1/2021).
	TWA: 1 mg/m ³ 8 hours. Form: Inhalable
	fraction
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 1/2021).
	TWA: 10 mg/m ³ 8 hours.
proprietary polyester resin	None.
carbon black	ACGIH TLV (United States, 1/2021).
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 3.5 mg/m ³ 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2021).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form:
	Respirable
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
	Respirable
	OSHA PEL (United States, 5/2018).
	TWA: 50 μg/m³ 8 hours. Form: Respirable
	dust
Key to abbreviation	DNS
A = Acceptable Maximum Peak	S = Potential skin absorption

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Product name GRAY PRIMER EPOXY

Section 8. Exposure controls/personal protection

C = Ceiling Limit F = Fume IPEL = Internal Permissible Expo OSHA = Occupational Safety and R = Respirable	Health Administration.) Subpart Z - Toxic and Hazardous Substances	SR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average
	: If this product contains ingredients wind atmosphere or biological monitoring in the ventilation or other control measure protective equipment. Reference shows	with exposure limits, personal, workplace may be required to determine the effectiveness of ures and/or the necessity to use respiratory hould be made to appropriate monitoring standards. Juments for methods for the determination of equired.
Appropriate engineering controls	or mist, use process enclosures, loca to keep worker exposure to airborne limits. The engineering controls also below any lower explosive limits. Use	If user operations generate dust, fumes, gas, vapor al exhaust ventilation or other engineering controls contaminants below any recommended or statutory o need to keep gas, vapor or dust concentrations se explosion-proof ventilation equipment.
Environmental exposure controls	they comply with the requirements of	process equipment should be checked to ensure f environmental protection legislation. In some gineering modifications to the process equipment as to acceptable levels.
Individual protection measure	<u>IS</u>	
Hygiene measures	eating, smoking and using the lavato Appropriate techniques should be us	roughly after handling chemical products, before ory and at the end of the working period. sed to remove potentially contaminated clothing. reusing. Ensure that eyewash stations and safety n location.
Eye/face protection	: Safety glasses with side shields.	
Skin protection		
Hand protection	worn at all times when handling chen necessary. Considering the paramet during use that the gloves are still ret noted that the time to breakthrough for	es complying with an approved standard should be mical products if a risk assessment indicates this is eters specified by the glove manufacturer, check etaining their protective properties. It should be for any glove material may be different for different mixtures, consisting of several substances, the be accurately estimated.
Body protection		e body should be selected based on the task being d should be approved by a specialist before
Other skin protection	: Appropriate footwear and any additio	onal skin protection measures should be selected and the risks involved and should be approved by a ct.
Respiratory protection	: Respirator selection must be based of hazards of the product and the safe ware exposed to concentrations above certified respirators. Use a properly the	on known or anticipated exposure levels, the working limits of the selected respirator. If workers e the exposure limit, they must use appropriate, fitted, air-purifying or air-fed respirator complying assessment indicates this is necessary.

Date of issue 25 May 2022

Version 8.01

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Section 8. Exposure controls/personal protection

The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

Appearance		
Physical state	:	Solid.
		Powder.
Color	1	Gray.
Odor	1	Not available.
Odor threshold	1	Not available.
рН	4	Not applicable.
Melting point	4	Not available.
Boiling point	1	Not available.
Flash point	1	Closed cup: Not applicable.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	1	Not applicable.
Evaporation rate	1	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Not applicable.
Relative density	1	1.43
Density(lbs / gal)	1	11.93
Solubility	1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	1	Not applicable.
Viscosity	:	Kinematic (40°C (104°F)): Not applicable.
Volatility	:	0% (v/v), 0% (w/w)
% Solid. (w/w)	1	100

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.

Product name GRAY PRIMER EPOXY

Section 10. Stability and reactivity

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

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Hazardous decomposition products
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Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

Section 11. Toxicological information

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Information on toxicological effects

Acute toxicity

Product/ingredient name	Result		Species	Dose	Exposure
titanium dioxide	LC50 Inha	ation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dern	nal	Rabbit	>5000 mg/kg	-
	LD50 Oral		Rat	>5000 mg/kg	-
carbon black	LD50 Oral		Rat	>10 g/kg	-
Conclusion/Summary	: There are	e no data available on t	the mixture itself.		
Irritation/Corrosion					
Conclusion/Summary					
Skin	: There are	e no data available on t	the mixture itself.		
Eyes	: There are	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.				
<u>Sensitization</u>					
Conclusion/Summary					
Skin	: There are	e no data available on t	the mixture itself.		
Respiratory	: There are no data available on the mixture itself.				
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data available on the mixture itself.				
<u>Carcinogenicity</u>					
Conclusion/Summary	: There are no data available on the mixture itself.				
Classification					
Product/ingredient name	OSHA	IARC NTP			
Wollastonite	-	3 -			
titanium dioxide	-	2B -			

Known to be a human carcinogen.

powder (<10 microns)
Carcinogen Classification code:

crystalline silica, respirable

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: -

2B

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Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

carbon black

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Product name GRAY PRIMER EPOXY

Section 11. Toxicological information

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

Target organs

: Contains material which may cause damage to the following organs: lungs, upper respiratory tract, eyes.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympt	ioms
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	Adverse symptoms may include the following:
innalation	respiratory tract irritation
	coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
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. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	

Product name GRAY PRIMER EPOXY

Section 11. Toxicological information

: There are no data available on the mixture itself.
: There are no data available on the mixture itself.
ects
: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
: May cause cancer. Risk of cancer depends on duration and level of exposure.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
proprietary polyester resin	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

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
Disposal should be in acc	and sewers.

licable reg local laws and reg ulations.

Product name GRAY PRIMER EPOXY

Section 13. Disposal considerations

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

14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
Environmental hazards Marine pollutant substances	No. Not applicable.	No. Not applicable.	No. Not applicable.

Additional information

DOT	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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

: COMBUSTIBLE DUSTS CARCINOGENICITY - Category 1A

Composition/information on ingredients

Product name GRAY PRIMER EPOXY

Section 15. Regulatory information

Name	%	Classification
titanium dioxide proprietary polyester resin	≥10 - ≤20 ≥1.0 - ≤5.0	CARCINOGENICITY - Category 2 COMBUSTIBLE DUSTS EYE IRRITATION - Category 2B
carbon black	≤1.0	COMBUSTIBLE DUSTS CARCINOGENICITY - Category 2
crystalline silica, respirable powder (<10 microns)	<1.0	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

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 : 1 * Flammability : 0 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 : 1 Flammability : 0 Instability : 0	
Date of previous issue	: 6/17/2021
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

Product name GRAY PRIMER EPOXY

Section 16. Other information

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.