SAFETY DATA SHEET



Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 2 February 2021

Version 1

Date of issue 2 February 2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: SANISHIELD 5000 PART A (ISO) 750 ML
Product code	: 00443296
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Product use	: 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
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

SECTION 2: Hazards identification

Classification of the	: ACUTE TOXICITY (oral) - Category 5
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	ACUTE TOXICITY (inhalation) - Category 4
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 32.1% (oral), 32.1% (dermal), 32.1% (inhalation)
GHS label elements	
Hazard pictograms	
O'mar a la second	
Signal word	: Danger
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Product name SANISHIELD 5000 PART A (ISO) 750 ML

SECTION 2: Hazards identification

	-	
Hazard statements	:	 H303 + H313 - May be harmful if swallowed or in contact with skin. H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation.
Precautionary statements		
Prevention	:	P280 - Wear protective gloves. P284 - Wear respiratory protection. P261 - Avoid breathing vapor.
Response	:	 P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
Storage	1	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Not applicable.
Other hazards which do not result in classification		Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Emits toxic fumes when heated.
See toxicological information	า (ร	Section 11)

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture
Product name
Other means of
identification

SANISHIELD 5000 PART A (ISO) 750 MLNot applicable.

: Mixture

Ingredient name%CAS numberHexamethylene diisocyanate, oligomers.
Poly(oxy-1,4-butanediyl), α -hydro- ω -hydroxy-, polymer with
5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane
hexamethylene-di-isocyanate $\geq 50 - \leq 74$
 $\geq 20 - \leq 50$ $\geq 8182-81-2$
 $\Rightarrow 39378-01-3$ ≤ 1.0 $\otimes 22-06-0$

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

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	: No known significant effects or critical hazards.
Inhalation	 Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact Ingestion	May be harmful in contact with skin. May cause an allergic skin reaction.May be harmful if swallowed.

Over-exposure signs/symptoms

See toxicological information (Section 11)

Indication of immediate med	dica	I attention and special treatment needed, if necessary
Notes to physician		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.
Specific treatments	- 1	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.

SECTION 5: Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides phosphorus oxides Cyanate and isocyanate. hydrogen cyanide
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.
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SECTION 5: Firefighting 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, protec	tiv	e 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	:	
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		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.
Special provisions	:	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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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SECTION 7: Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35° C (32 to 95° 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. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO ₂ will be formed, which, in closed containers, could result in pressurization.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits		
Hexamethylene diisocyanate, oligomers. Poly(oxy-1,4-butanediyl), α-hydro-ω-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane hexamethylene-di-isocyanate		IPEL (PPG). TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ None. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.005 ppm 8 hours.	
Key to abbreviations C = Ceiling Limit IPEL = Internal Permissible Exposure Limit	STEL TLV TWA	 Short term exposure limit Threshold Limit Value Time Weighted Average 	

Consult local authorities for acceptable exposure limits.

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SECTION 8: Exposure controls/personal protection

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Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. 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 measure	es	
Hygiene measures		Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	1	Safety glasses with side shields.
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	1	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	:	By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.
Restrictions on use	:	Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

SECTION 9: Physical and chemical properties

Appearance

Physical state	:	Liquid.
Color	:	Colorless.
Odor	:	Characteristic.
Odor threshold	1	Not available.
Molecular weight	4	Not applicable.
рН	4	Not applicable.
Melting point	4	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	:	Closed cup: 214.44°C (418°F)
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	4	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Evaporation rate	1	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	1	1.11
Density(lbs / gal)	:	9.26
Solubility	1	Insoluble in the following materials: cold water.
Solubility in water	4	Not available.
Partition coefficient: n-	1	Not available.
octanol/water		
Viscosity		Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility		0% (v/v), 0% (w/w)
% Solid. (w/w)	4	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	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
Hazardous decomposition products	 Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides phosphorus oxides hydrogen cyanide

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers.	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Female	>2500 mg/kg	-
hexamethylene-di- isocyanate	LC50 Inhalation Dusts and mist	s Rat	124 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	151 mg/m³	4 hours
	LC50 Inhalation Vapor	Rat Babbit	22 ppm	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	0.57 g/kg 0.71 g/kg	-
Conclusion/Summary	: There are no data available of			
rritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available of	on the mixture its	elf.	
Eyes	: There are no data available of	on the mixture its	elf.	
Respiratory	: There are no data available of	on the mixture its	elf.	
Sensitization				
Conclusion/Summary				
Skin	: There are no data available of	on the mixture its	elf.	
Respiratory	: There are no data available of	on the mixture its	elf.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available of	on the mixture its	elf.	
Carcinogenicity				
Conclusion/Summary	: There are no data available of	on the mixture its	elf.	
Reproductive toxicity				
Conclusion/Summary	: There are no data available of	on the mixture its	elf.	
Teratogenicity				
Conclusion/Summary	: There are no data available of	on the mixture its	elf.	
Specific target organ toxici				
Name	C	ategory	Route of	Target organs
			exposure	
Hexamethylene diisocyanate	e, oligomers.	ategory 3	-	Respiratory tract
I	0			

Specific target organ toxicity (repeated exposure)

Not available.

hexamethylene-di-isocyanate

Target organs

: Contains material which causes damage to the following organs: upper respiratory tract, skin, eyes. Contains material which may cause damage to the following organs: blood, peripheral nervous system, central nervous system (CNS).

Category 3

Aspiration hazard

Not available.

Respiratory tract

irritation

SECTION 11: Toxicological information

Information on the likely routes of exposure

Potential acute health effects

Potential acute nealth effect		
Eye contact	o known significant effects or critical hazards.	
Inhalation	armful if inhaled. May cause respiratory irritation. May cause mptoms or breathing difficulties if inhaled.	allergy or asthma
Skin contact	ay be harmful in contact with skin. May cause an allergic skin	reaction.
Ingestion	ay be harmful if swallowed.	
Over-exposure signs/sympt		
Eye contact	o specific data.	
Inhalation	dverse symptoms may include the following: spiratory tract irritation bughing heezing and breathing difficulties sthma	
Skin contact	dverse symptoms may include the following: itation dness	
Ingestion	o specific data.	
Delayed and immediate effe	d also chronic effects from short and long term exposure	
Conclusion/Summary	ere are no data available on the mixture itself. Skin contact to ponomer may lead to allergic lung reaction. Based on the proper ocyanate components and considering toxicological data on sir xture may cause acute irritation and/or sensitization of the resp ading to an asthmatic condition, wheezing and tightness of the posure may lead to permanent respiratory disability. If splashe uid may cause irritation and reversible damage. Ingestion may arrhea and vomiting. This takes into account, where known, de mediate effects and also chronic effects of components from s m exposure by oral, inhalation and dermal routes of exposure	erties of the milar mixtures, this piratory system, chest. Repeated ed in the eyes, the y cause nausea, elayed and short-term and long-
<u>Short term exposure</u>		
Potential immediate effects	ere are no data available on the mixture itself.	
Potential delayed effects	ere are no data available on the mixture itself.	
<u>Long term exposure</u>		
Potential immediate effects	ere are no data available on the mixture itself.	
Potential delayed effects	ere are no data available on the mixture itself.	
Potential chronic health effe		
General	nce sensitized, a severe allergic reaction may occur when sub very low levels.	sequently exposed
Carcinogenicity	o known significant effects or critical hazards.	
Mutagenicity	o known significant effects or critical hazards.	
Reproductive toxicity	o known significant effects or critical hazards.	
Numerical measures of toxic		
Acute toxicity estimates		

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SANISHIELD 5000 PART A (ISO) 750 ML	2522.4	2522.4	N/A	11.1	1.5
Hexamethylene diisocyanate, oligomers.	2500	2500	N/A	11	1.5
hexamethylene-di-isocyanate	710	570	N/A	0.151	0.124

SECTION 12: Ecological information

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Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers.	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia - daphnia magna Fish - Danio rerio (zebra fish)	48 hours 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene diisocyanate, oligomers.	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diisocyanate, oligomers.	-	3.2	low
hexamethylene-di-isocyanate	1.08	-	low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

: No known significant effects or critical hazards. **Other adverse effects**

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 acco	ordance with applicable regional inational and local laws and regulations

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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

SECTION 14: Transport information

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

Additional information

Mexico: None identified.IMDG: None identified.IATA: 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

<u>Mexico</u>						
Classification						
Flammability	: 1	Health	1	3	Reactivity : 0	
International regu	lation	<u>s</u>				
Montreal Protoc	<u>ol</u>					
Not listed.						
Stockholm Conv	ventior	<u>on Persis</u>	tent	Org	anic Pollutants	
Not listed.						
Rotterdam Conv	ention	on Prior I	nfor	<u>med</u>	Consent (PIC)	

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SECTION 15: Regulatory information

Not listed.

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. 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.

Date of previous issue Organization that prepared the MSDS	 No previous validation 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 = International Air Transport Association IBC = 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.

Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

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.