SAFETY DATA SHEET



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

Date of revision 13 July 2020

Version 2.01

Date of issue 13 July 2020

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

	_				
Product name	: SANISHIELD 3000 PART A (ISO)				
Product code	: 00430139				
Other means of identification	: Not applicable.				
Product type	: Liquid.				
Relevant identified uses of 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 substance or mixture	 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 20%
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 20% (Oral), 100% (Dermal), 10% (Inhalation)
GHS label elements	
Hazard pictograms	



Version 2.01

Product name SANISHIELD 3000 PART A (ISO)

SECTION 2: Hazards identification

Signal word	:	Danger
Hazard statements	:	 H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements		(respiratory system, respiratory tract)
Prevention		P202 Do not handle until all safety processions have been read and understood
Prevention	:	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P284 - Wear respiratory protection. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling.
Response	:	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. 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 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	:	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.
Supplemental label elements (First aid measures):		Photosensitive agents : In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
See toxicological information (Section 11)		

SECTION 3: Composition/information on ingredients

Substance/mixture
Product name

: Mixture

Other means of identification

- : SANISHIELD 3000 PART A (ISO)
- : Not applicable.

Ingredient name	%	CAS number
Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis[propanol] (2:1), and oxirane	≥50 - ≤75	157937-75-2
4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate propylene carbonate	≥20 - ≤27 ≥10 - ≤20 ≥10 - ≤20	101-68-8 5873-54-1 108-32-7

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

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. In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
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. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
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/ef	ects, acute and delayed
Potential acute health effect	<u>S</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympt	<u>oms</u>

See toxicological information (Section 11)

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

SECTION 4: First aid measures

Notes to physician Specific treatments	 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.
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 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.
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	:	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	ont	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.
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SECTION 6: Accidental release measures

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.

SECTION 7: Handling and storage

Precautions for safe handling

		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.
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 according to the container to according the sector were container to according to the sector.
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.
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.
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. 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 breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

STEL = Short term exposure limit

= Threshold Limit Value TWA = Time Weighted Average

TLV

Product name SANISHIELD 3000 PART A (ISO)

SECTION 7: Handling and storage

Precautions should be taken to minimize exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurization.

SECTION 8: Exposure controls/personal protection

Control parameters

С

IPEL

Occupational exposure limits

= Ceiling Limit

Ingredient name	Exposure limits			
Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis[propanol] (2:1),	None.			
and oxirane 4,4'-methylenediphenyl diisocyanate	NOM-010-STPS-2014 (Mexico, 4/2016).			
	TWA: 0.005 ppm 8 hours.			
o-(p-isocyanatobenzyl)phenyl isocyanate	None.			
propylene carbonate	None.			
Kev to abbreviations				

Consult local authorities for acceptable exposure limits.

= Internal Permissible Exposure Limit

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Gloves	ł	polyethylene butyl rubber
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.
Eye/face protection	÷	Chemical splash goggles.
Individual protection measure 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.
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.
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.
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.

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SECTION 8: Exposure controls/personal protection

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	Not available.	
Molecular weight	Not applicable.	
рН	Not available.	
Melting point	Not available.	
Boiling point	>37.78°C (>100°F)	
Flash point	Closed cup: 110°C (230°F)	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Evaporation rate	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	1.14	
Density(lbs / gal)	9.51	
Solubility	Insoluble in the following materials: cold wa	iter.
Solubility in water	Not available.	
Partition coefficient: n- octanol/water	Not available.	
Viscosity	Kinematic (40°C (104°F)): >0.21 cm²/s (>2	1 cSt)
Volatility	0% (v/v), 0% (w/w)	
% Solid. (w/w)	100	

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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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity								
Product/ingredient name	Result		Species		Dose		Exposure	
Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane	LD50 Oral		Rat		>1000	00 mg/kg	-	
4,4'-methylenediphenyl diisocyanate	LD50 Oral		Rat		9200	mg/kg	-	
propylene carbonate	LD50 Oral		Rat		29 g/ł	٨g	-	
Conclusion/Summary Irritation/Corrosion	: There are no data availa	ble on	the mixtu	re itse	lf.			
Product/ingredient name	Result	Spe	cies	Scor	е	Exposure		Observation
4,4'-methylenediphenyl diisocyanate	Skin - Irritant	Rab	bit	-		-		-
Conclusion/Summary								
Skin	: There are no data availa	ble on	the mixtu	re itse	lf.			
Eyes	: There are no data availa	ble on	the mixtu	re itse	lf.			
Respiratory	: There are no data availa	ble on	the mixtu	re itse	lf.			
Sensitization								

Product/ingredient name	Route of exposure	Species	Result
4,4'-methylenediphenyl diisocyanate	skin	Mouse	Sensitizing
	Respiratory	Guinea pig	Sensitizing
Conclusion/Summary			

Skin

: There are no data available on the mixture itself.

SECTION 11: Toxicological information

Respiratory

: There are no data available on the mixture itself.

<u>Mutagenicity</u> Conclusion/Summary

: There are no data available on the mixture itself.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-methylenediphenyl diisocyanate	Positive - Inhalation - TC	Rat	0 to 6 mg/m ³	2 years; 5 days per week
Conclusion/Summary	: There are no data available	on the mixture itse	lf.	

Classification

Product/ingredient name	OSHA	IARC	NTP
4,4'-methylenediphenyl diisocyanate	-	3	-

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
Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis[propanol] (2:1), and oxirane	Category 3	-	Respiratory tract irritation
4,4'-methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
o-(p-isocyanatobenzyl)phenyl isocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis[propanol] (2:1), and oxirane	Category 2	inhalation	respiratory tract
4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate	Category 2 Category 2	inhalation -	respiratory system -

Target organs

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

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

Product name SANISHIELD 3000 PART A (ISO)

SECTION 11: Toxicological information

Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympt	toms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
	ects and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. 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. Repeated exposure may lead to permanent respiratory disability. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. If splashed in the eyes, the liquid may cause irritation and reversible damage. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure	
Potential immediate 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	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health effe	
General	 May cause damage to organs through prolonged or repeated exposure. 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.
	I
Mutagenicity	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Developmental effects

: No known significant effects or critical hazards.

- Fertility effects
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
ANISHIELD 3000 PART A (ISO) Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis[propanol] (2:1), and oxirane	N/A N/A	N/A N/A	N/A N/A	27.5 N/A	2.1 1.5
4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate propylene carbonate	9200 N/A 29000	N/A N/A N/A	N/A N/A N/A	11 11 N/A	N/A 1.5 N/A

SECTION 12: Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane	EC50 >1640 mg/l EC50 >1000 mg/l	Aquatic plants - Desmodesmus subspicatus Daphnia - Daphnia magna	72 hours
	LC50 >1000 mg/l NOEC ≥10 mg/l	Fish - Brachydanio rerio Daphnia - Daphnia magna	96 hours 21 days

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane	-	0 % - 28 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane	-		-		Not readily

Bioaccumulative potential

Product name SANISHIELD 3000 PART A (ISO)

SECTION 12: Ecological information

Dreduct/in and is at nome	LevD	DOF	Detential
Product/ingredient name	LogPow	BCF	Potential
Oxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane	4.51	200	low
propylene carbonate	-0.41	-	low

Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

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	redance with applicable regional, national and local laws and regulations

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

SECTION 14: Transport information

	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.	
			Mexico Page: 12/14	

	Product code 00430139 Product name SANISHIELD 3000 PART A (ISO)		2020 Version 2.01	
SECTION 14: Transport information				
RQ substances	Not applicable.	Not applicable.	Not applicable.	
Additional informat	ion			
	None identified.			
IMDG :	None identified.			
IATA :	None identified.			
Special precautions	upright and sec	nin user's premises: always transport sure. Ensure that persons transporting accident or spillage.		
Transport in bulk action to IMO instruments	ccording : Not applicable.			
SECTION 15	: Regulatory infor	mation		
<u>lexico</u>				
Classification				
Flammability :	1 Health : 3 Re	eactivity : 1		
nternational regulati				
<u>international regulat</u>	ions			
Montreal Protocol	ions			
	<u>ions</u>			
Montreal Protocol Not listed.	<u>ions</u> tion on Persistent Organic F	Pollutants		
Montreal Protocol Not listed. Stockholm Convent Not listed.	tion on Persistent Organic F			
Montreal Protocol Not listed. Stockholm Convent Not listed.				
Montreal Protocol Not listed. Stockholm Convent Not listed. Rotterdam Convent Not listed.	tion on Persistent Organic F	ent (PIC)		
Montreal Protocol Not listed. Stockholm Convent Not listed. Rotterdam Convent Not listed. SECTION 16	tion on Persistent Organic F tion on Prior Informed Cons	sent (PIC) DN		
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Product name SANISHIELD 3000 PART A (ISO)

SECTION 16: Other information

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 = 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
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✓ 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.