# **SAFETY DATA SHEET**



#### The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 3 September 2023 Version 2.02

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Section 1. Identification		
Product name	: SANISHIELD 3000 PART A (ISO)	
Product code	: 00430139	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	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.	
Supplier	<ul> <li>PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121</li> </ul>	
	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	: 888-977-4762	

# Section 2. Hazard identification

Classification of the substance or mixture	<ul> <li>ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</li> </ul>
	irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	

<u>HS label elements</u>

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Product name SANISHIELD 3000 PART A (ISO)

### Section 2. Hazard identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Harmful if inhaled.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause respiratory irritation.</li> <li>Suspected of causing cancer.</li> <li>May cause damage to organs through prolonged or repeated exposure. (respiratory system, respiratory tract)</li> </ul>
Precautionary statements	
Prevention	Description: De
Response	<ul> <li>IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. Take off contaminated clothing and wash it 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.</li> <li>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, rash 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.</li> </ul>
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	<ul> <li>Moisture-sensitive material. 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. Repeated exposure may lead to permanent respiratory disability. 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. Emits toxic fumes when heated.</li> <li>Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 20% (oral), 100% (dermal), 10% (inhalation)</li> </ul>

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SANISHIELD 3000 PART A (ISO)
Other means of identification	: Not available.

#### **CAS number/other identifiers**

Ingredient name	Synonyms	% (w/w)	CAS number
Øxirane, methyl-, polymer with 1,1'- methylenebis[isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis[propanol] (2:1), and oxirane	Methyloxirane, polymer with 1,1-methylene-bis (isocyanatobenzene) [1-methylenebis (isocyantobenzene)] methyloxirane and oxirane; Methyloxirane polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane; Methyloxirane,polymer with oxirane, ether with oxybis (propanol), polymer with 1,1"- methylenebis (isocyanatobenzene), methyloxirane and oxirane	30 - 60*	157937-75-2
4,4'-methylenediphenyl diisocyanate	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; Benzene, 1,1'-methylenebis[4-isocyanato-; Benzene, 1,1'-methylenebis(4-isocyanato-; 4,4'-Diisocyanatodiphenylmethane; 4,4'- Diphenylmethane diisocyanate; 4,4-Methylenediphenyl diisocyanate; Isocyanic acid, methylenedi-p-phenylene ester; Methylenebis[4-phenyl isocyanate; Methylene 4,4'-diphenyl diisocyanate; Methylene bisphenyl isocyanate (MDI)	10 - 30*	101-68-8
o-(p-isocyanatobenzyl)phenyl isocyanate	diphenylmethane-2,4'-diisocyanate; Benzene, 1-isocyanato-2-[ (4-isocyanatophenyl)methyl]-; Benzene, 1-isocyanato-2-((4-isocyanatophenyl) methyl)-; Benzene, 1-isocyanato-2- [4-isocyanatophenyl)methyl]-; 1-isocyanato-2-(4-isocyanatobenzyl) benzene; 2,4'-methylenediphenylene diisocyanate; 2,4'-MDI; diphenylmethane- 2,4'-diisocyanate; o-(pisocyanatobenzyl) phenyl isocyanate; diphenylmethane-2,4'- diisocyanate; 2,4'-diphenylmethane diisocyanate; 2,4'-diphenylmethane	10 - 30*	5873-54-1
propylene carbonate	1,3-Dioxolan-2-one, 4-methyl-; Carbonic acid, cyclic methylethylene ester; catalyst containing by weight: —25 % or more but not more than 27,5 % of bis[4- (diphenylsuphonio)phenyl]sulphide bis (hexafluoroantimonate) (CAS RN 89452-37-9), and —20 % or more but not more than 22,5 % of diphenyl (4-phenylthio)phenylsufonium	7 - 13*	108-32-7
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### Section 3. Composition/information on ingredients

hexafluoroantimonate (CAS RN	
71449-78-0) in propylene carbonate (CAS	
RN 108-32-7); catalyst consisting by	
weight of: —30 % or more but not more	
than 33 % of bis(4-(diphenylsulphonio)	
phenyl)sulphide bis(hexafluorophosphate)	
(CAS RN 74227-35-3), and —24 % or	
more but not more than 27 % of diphenyl	
(4-phenylthio)phenylsuphonium	
hexafluorophosphate (CAS RN	
68156-13-8) in propylene carbonate (CAS	
RN 108-32-7)	

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> <li>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.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
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/et	fects, acute and delayed
Potential acute health effec	<u>ts</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/symp	toms

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# Section 4. First-aid measures

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.

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

Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li></ul>
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. <li>No specific treatment.</li>
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	: 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, protect	ctiv	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.
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	
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

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# Section 7. Handling and storage

		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 $35^{\circ}$ C (32 to $95^{\circ}$ 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
Sxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis[propanol] (2:1), and oxirane	None.
4,4'-methylenediphenyl diisocyanate	<ul> <li>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.05 mg/m<sup>3</sup> 8 hours. 8 hrs OEL: 0.005 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). Inhalation sensitizer.</li> <li>C: 0.01 ppm 15 minutes. TWA: 0.005 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>Skin sensitizer. Inhalation sensitizer.</li> <li>TWAEV: 0.051 mg/m<sup>3</sup> 8 hours.</li> <li>TWAEV: 0.005 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 0.015 ppm 15 minutes.</li> <li>TWA: 0.005 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Isocyanates, organic compounds]</li> <li>Ceiling Limit: 0.02 ppm</li> <li>TWA: 0.005 ppm 8 hours.</li> </ul>
o-(p-isocyanatobenzyl)phenyl isocyanate	CA British Columbia Provincial (Canada, 6/2022). [Diisocyanates, not elsewhere specified, NOS]
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# Section 8. Exposure controls/personal protection

propylene carbonate	C: 0.01 ppm 15 minutes. TWA: 0.005 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds] Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer. None.			
Consult local authorities for	cceptable exposure limits.			
Recommended monitoring procedures	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	<ul> <li>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.</li> </ul>			
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 measu	9 <u>5</u>			
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.			
Eye/face protection	: Chemical splash goggles.			
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	: polyethylene 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.			

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# Section 8. Exposure controls/personal protection

Respiratory protection	: Vse an air-fed respirator unless a site-specific assessment determines that an air- fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Colorless.		
Odor	: Characteristic.		
Odor threshold	: Not available.		
рН	: Not applicable.		
Melting point	: Not available.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 110°C (2	230°F)	
Auto-ignition temperature	: Not available.		
Decomposition temperature	: Not available.		
Flammability	: 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(Ibs / gal)	: 9.51		
Solubility(ies)	Media	Result	
Colubility (ICO)	. cold water	Not soluble	
Partition coefficient: n- octanol/water	: Not applicable.		
Viscosity	: 🕅 Kinematic (40°C (104	4°F)): >21 mm²/s (>21 cSt)	
Volatility	: 0% (v/v), 0% (w/w)		
% Solid. (w/w)	: 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.

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### Section 10. Stability and reactivity

Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
Conditions to avoid	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.

### Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
Øxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane	LD50 Oral	Rat	>10000 mg/kg	-	
4,4'-methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-	
propylene carbonate	LD50 Oral	Rat	29 g/kg	-	
Conclusion/Summary	: There are no data available on the mixture itself.				

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-methylenediphenyl diisocyanate	Skin - Irritant	Rabbit	-	-	-

#### **Conclusion/Summary**

: There are no data available on the mixture itself.

Eyes

: There are no data available on the mixture itself.

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

### Sensitization

Skin

Product/ingredient name	Route of exposure	Species		Result		
4'-methylenediphenyl diisocyanate	Respiratory	Guinea p	ig	Sensitizing	Sensitizing	
,	skin	Mouse		Sensitizing	Sensitizing	
Skin	: There are no	: There are no data available on the mixture itself.				
Respiratory	: There are no data available on the mixture itself.					
<u>Mutagenicity</u>						
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.					
Carcinogenicity						
Product/ingredient name	Result		Species	Dose	Exposure	
4,4'-methylenediphenyl diisocyanate	Positive - Inhala	ation - TC	Rat	0 to 6 mg/m <sup>3</sup>	2 years; 5 days per week	
Conclusion/Summary	: There are no	data availab	le on the mixture	itself.	·	

### Section 11. Toxicological information

<u>Classification</u>							
Product/ingredient name	OSHA	IARC	NTP				
4,4'-methylenediphenyl diisocyanate	e -	3	-				
Carcinogen Classification code:		•	· · · · · · · · · · · · · · · · · · ·				
Reproductive toxicity							
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.							
<b>Teratogenicity</b>							
Conclusion/Summary : The	ere are no	data avail	able 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

Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

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### Section 11. Toxicological information

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.

#### 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. 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 eff	ect	<u>s</u>
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.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Numerical measures of toxic Acute toxicity estimates	<u>city</u>	

## 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)
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
Øxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene], methyloxirane polymer with oxirane ether with oxybis [propanol] (2:1), and oxirane	EC50 >1640 mg/l	Aquatic plants - Desmodesmus subspicatus	72 hours
	EC50 >1000 mg/l LC50 >1000 mg/l NOEC ≥10 mg/l	Daphnia - <i>Daphnia magna</i> Fish - <i>Brachydanio rerio</i> Daphnia - <i>Daphnia magna</i>	48 hours 96 hours 21 days

### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Xirane, 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	5	Biodegradability
Øxirane, 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

Product/ingredient name	LogPow	BCF	Potential
Øxirane, methyl-, polymer with 1,1'-methylenebis [isocyanatobenzene],	4.51	200	Low
methyloxirane polymer with oxirane ether with oxybis			
[propanol] (2:1), and oxirane 4,4'-methylenediphenyl	4.51	_	High
diisocyanate	1.01		
o-(p-isocyanatobenzyl) phenyl isocyanate	4.51	-	High
propylene carbonate	-0.41	-	Low

#### 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 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

### Section 14. Transport information

	TDG	IMDG	IATA
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.

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Product name SANISHIELD 3000 PART A (ISO)

### Section 14. Transport information

### Additional information

TDG	: 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

National Inventory List

Canada inventory (DSL) : All components are listed or exempted.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 1 Physical hazards : 1

(\*) - 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 Flammabili Date of issue/Date of revision	ity: 1 Instability: 1 3 September 2023
Organization that prepared : the SDS	EHS
Key to abbreviations :	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

**Disclaimer** 

### 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.