# **SAFETY DATA SHEET**



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

Date of issue/Date of revision 26 April 2024 Version 6.02

Section 1. Identification		
Product name	: SIGMASHIELD 905 BASE OFFWHITE	
Product code	: 00190477	
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	: ACUTE TOXICITY (inhalation) - Category 4
substance or mixture	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1B
	CARCINOGENICITY - Category 2
	This product contains TiO2 which has been classified as a GHS Carcinogen
	Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

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## Product name SIGMASHIELD 905 BASE OFFWHITE

## Section 2. Hazard identification

## GHS label elements Hazard pictograms



		• •
Signal word	1	Warning
Hazard statements	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer.
Precautionary statements		
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	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. 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.
Storage	:	Store locked up.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Emits toxic fumes when heated. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 14.4% (oral), 25.5% (dermal), 71.1% (inhalation)

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMASHIELD 905 BASE OFFWHITE
Other means of identification	: Not available.

**CAS number/other identifiers** 

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## Product name SIGMASHIELD 905 BASE OFFWHITE

## Section 3. Composition/information on ingredients

ngredient name	Synonyms	% (w/w)	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl] propane	2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy) phenyl]propane; 2,2-bis[4- (2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(p-(2,3-epoxypropoxy) phenyl)-; diglycidyl ether of bisphenol-A; 2,2-bis(4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether; Araldite; DIPHENYLOL PROPANE DIGLYCIDYL ETHER	30 - 60*	1675-54-3
Nepheline syenite	potassium, sodium, oxido-oxo- oxoalumanyloxysilane	10 - 30*	37244-96-5
Talc , not containing asbestiform fibres	Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	5 - 10*	14807-96-6
1,6-bis(2,3-epoxypropoxy)hexane	Oxirane, 2,2'-[1,6-hexanediylbis (oxymethylene)]bis-; 1,6-Bis(glycidyloxy) hexane; 1,6-Hexanediol diglycidyl ether; Hexane, 1,6-bis(2,3-epoxypropoxy); 2,2'- [hexane-1,6-diylbis(oxymethanediyl)] dioxirane; Diglycidyl hexanediol; 2,2'- [1,6-Hexanediylbis(oxymethylene)] bisoxirane; 2,2'-[Hexane-1,6-diylbis (oxymethylene)]bis(oxirane); Glycidyl or 2-methylglycidyl ether of poly (2-6) hydroxyalkane (C3-10); Alkylene glycol diglycidyl ether (C2-12); Hexamethylene glycol diglycidyl ether	5 - 10*	16096-31-4
penzyl alcohol	Benzenemethanol; .alpha Hydroxytoluene; Phenylcarbinol; Phenylmethanol; E 1519; α- hydroxytoluene; Phenylmethyl alcohol; toluenol, alpha-; (hydroxymethyl)benzene; BENZENECARBINOL; alpha- Hydroxytoluene	5 - 10*	100-51-6
glass, oxide, chemicals	Glass, oxide; Glassy sodium phosphate; Lead borosilicate glass enamel flux; Sodium calcium magnesium polyphosphate; Sodium calcium magnesium silica polyphosphate; Sodium calcium polyphosphate; Sodium zinc potassium polyphosphate; Fibrous glass; glass, fibrous; Glass; Sodium zinc polyphosphate	3 - 7*	65997-17-3
itanium dioxide	Titanium oxide; Titanium oxide (TiO2); CI 77891; Titanium peroxide; Rutile; C.I.	1 - 5*	13463-67-7

## Product name SIGMASHIELD 905 BASE OFFWHITE

## Section 3. Composition/information on ingredients

\*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> </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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

#### Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>cts</u>		
Eye contact	: Causes serious eye irritation.		
Inhalation	: Harmful if inhaled.		
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.		
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/symptoms			
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness		
Inhalation	: No specific data.		

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## Section 4. First-aid measures

Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: 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 metal oxide/oxides
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, protective equipment and emergency procedures For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For emergency responders If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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## Section 6. Accidental release measures

	_	
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 c	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.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	t on appropriate personal protective equipment (see Section 8 story of skin sensitization problems should not be employed in ich this product is used. Avoid exposure - obtain special instr o not handle until all safety precautions have been read and un t in eyes or on skin or clothing. Do not ingest. Avoid breathing e only with adequate ventilation. Wear appropriate respirator adequate. Keep in the original container or an approved altern mpatible material, kept tightly closed when not in use. Empty poduct residue and can be hazardous. Do not reuse container.	any process in uctions before use. iderstood. Do not g vapor or mist. when ventilation is ative made from a containers retain
Special precautions	pors may accumulate in low or confined areas or travel a consource of ignition and flash back. Vapors are heavier than air ong floors. If this material is part of a multiple component systet a Sheet(s) for the other component or components before bloculting mixture may have the hazards of all of its parts.	and may spread em, read the Safety
Advice on general occupational hygiene	ting, drinking and smoking should be prohibited in areas wher ndled, stored and processed. Workers should wash hands ar ting, drinking and smoking. Remove contaminated clothing a uipment before entering eating areas. See also Section 8 for ormation on hygiene measures.	nd face before nd protective
Conditions for safe storage, including any incompatibilities	bre between the following temperatures: 0 to 35°C (32 to 95°F cordance with local regulations. Store in original container pro- nlight in a dry, cool and well-ventilated area, away from incom- ee Section 10) and food and drink. Store locked up. Keep con- d sealed until ready for use. Containers that have been open- sealed and kept upright to prevent leakage. Do not store in ur- e appropriate containment to avoid environmental contaminat	otected from direct patible materials ntainer tightly closed ed must be carefully labeled containers.

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.
Nepheline syenite	CA Ontario Provincial (Canada, 6/2019).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust
Talc , not containing asbestiform fibres	CA British Columbia Provincial (Canada,
	6/2022).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	CA Ontario Provincial (Canada).
	TWA: 2 ppb Form: Respirable
	CA Quebec Provincial (Canada, 6/2022).
	TWAEV: 2 mg/m <sup>3</sup> 8 hours. Form:
	Respirable dust.
	CA Alberta Provincial (Canada, 6/2018).
	OEL: 2 mg/m³ 8 hours. Form: Respirable particulate
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	particulate matter.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: respirable
	fraction
1,6-bis(2,3-epoxypropoxy)hexane	None.
benzyl alcohol	IPEL (-).
	TWA: 5 ppm
	STEL: 10 ppm
glass, oxide, chemicals	CA British Columbia Provincial (Canada,
J,,	6/2022). [Synthetic Vitreous Fibres -
	Continuous filament glass fibres]
	TWA: 1 f/cc 8 hours.
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	CA Alberta Provincial (Canada, 6/2018).
	[Glass Fibres, Continuous filament]
	OEL: 1 f/cc 8 hours. Form: Fibres
	CA Alberta Provincial (Canada, 6/2018).
	[Glass Fibres, Continuous filament, total
	OEL: 5 mg/m <sup>3</sup> 8 hours. Form: Fibres
	CA Alberta Provincial (Canada, 6/2018).
	[Synthetic Vitreous Fibres: Glass fibres,
	continuous filament total particulate]
	OEL: 5 mg/m <sup>3</sup> 8 hours. Form: Fibres, total
	particulate CA Ontario Provincial (Canada, 6/2019).
	[Synthetic Vitreous Fibres (Man Made
	Mineral Fibres) (Continuous filament
	glass fibres)]
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	particulate matter.
	CA Quebec Provincial (Canada, 6/2022).
	[Fibres - Artificial Vitreous Mineral Fibres (note 4) - Insulation wool fibres, Slag

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## Section 8. Exposure controls/personal protection

	<ul> <li>wool]</li> <li>TWAEV: 1 f/cc 8 hours. Form:</li> <li>RESPIRABLE FIBRES (other than respirable asbestos fibres) : Objects, other than respirable asbestos fibres, longer than 5 μm, having a diameter of less than 3 μm and a ratio of length to diameter of more than 3 :1.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Synthetic Vitreous Fibres, not otherwise classified (excluding fibrous glass dust and mineral wool fibre)]</li> <li>TWA: 1 f/cc 8 hours.</li> </ul>
titanium dioxide	<ul> <li>CA British Columbia Provincial (Canada, 6/2022). [Titanium dioxide]</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Total dust TWA: 3 mg/m<sup>3</sup> 8 hours. Form: respirable fraction</li> <li>CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust.</li> <li>CA Alberta Provincial (Canada, 6/2018). Skin sensitizer.</li> <li>OEL: 10 mg/m<sup>3</sup> 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 20 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total dust</li> </ul>

### Consult local authorities for acceptable exposure limits.

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Skin protection		
Eye/face protection	1	Chemical splash goggles.
Individual protection 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	:	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

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	: butyl rubber
Body protection	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

				Canada	Page: 9/15
Volatility	:	12% (v/v), 9.232% (w/w)			
Viscosity		Kinematic (40°C (104°F)): >	>21 mm²/s (>21 cSt)		
Partition coefficient: n- octanol/water	:	Not applicable.			
Solubility(ies)	:	cold water	Not soluble		
Solubility(ice)		Media	Result		
Density(lbs / gal)	:	10.85			
Relative density	:	1.3			
Vapor density	:	Not available.			
/apor pressure	:	Not available.			
Evaporation rate	:	Not available.			
ower and upper explosive flammable) limits	÷	Not available.			
lammability		Not available.			
Decomposition temperature		Not available.			
Auto-ignition temperature		Not available.			
Flash point		Closed cup: Not applicable.			
Boiling point		>37.78°C (>100°F)			
Aelting point		Not available.			
ЪΗ	4	Not applicable.			
Ddor threshold	:	Not available.			
Ddor	:	Aromatic.			
Color	÷	Off-white.			
<u>ppearance</u> Physical state	1.	Liquid.			

## Section 9. Physical and chemical properties

% Solid. (w/w) : 90.768

Section 10. Stability and reactivity					
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
Chemical stability	: The product is stable.				
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.				
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.				
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following material carbon oxides metal oxide/oxides				

## Section 11. Toxicological information

## Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
Nepheline syenite	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

## **Conclusion/Summary**

Skin

: There are no data available on the mixture itself.

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## Section 11. Toxicological information

Eyes	1	There are no data available on the mixture itse
Respiratory	1	There are no data available on the mixture itse

## **Sensitization**

- elf.
- ure itself.

Product/ingredient name	Route expos		Specie	S	Result	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin		Mouse		Sensitizing	
Skin	: The	e are no	data avail	able on the m	ixture itself.	
Respiratory	: The	e are no	data avail	able on the m	ixture itself.	
Mutagenicity						
<b>Conclusion/Summary</b>	: The	e are no	data avail	able on the m	ixture itself.	
Carcinogenicity						
<b>Conclusion/Summary</b>	: The	e are no	data avail	able on the m	ixture itself.	
<b>Classification</b>						
Product/ingredient name		OSHA	IARC	NTP		
bis-[4-(2,3-epoxipropoxi)phe propane	nyl]	-	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: -

3

2B

#### **Reproductive toxicity**

glass, oxide, chemicals

titanium dioxide

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

#### **Teratogenicity**

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

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

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

**Target organs** 

: Contains material which causes damage to the following organs: blood, liver, heart, brain.

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

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

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## Section 11. Toxicological information

## Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

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

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
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. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u> Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects Potential chronic health eff	: There are no data available on the mixture itself.

## Product name SIGMASHIELD 905 BASE OFFWHITE

## Section 11. Toxicological information

General: 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.		
exposure.Mutagenicity: No known significant effects or critical hazards.	General	
	Carcinogenicity	
<b>Reproductive toxicity</b> : No known significant effects or critical hazards.	Mutagenicity	: No known significant effects or critical hazards.
	Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMASHIELD 905 BASE OFFWHITE	11582.3		N/A	N/A	4.8
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000		N/A	N/A	N/A
benzyl alcohol	1230		N/A	N/A	1.5

## Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
titanium dioxide	Chronic NOEC 0.3 mg/l Acute LC50 >100 mg/l Fresh water	Daphnia Daphnia - <i>Daphnia magna</i>	21 days 48 hours
	Acute 2000 × 100 mg/11 rear water	Daprinia - Daprinia magna	40 110013

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
benzyl alcohol	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1,6-bis(2,3-epoxypropoxy) hexane	0.822	-	Low
benzyl alcohol	0.87	-	Low

### Mobility in soil Soil/water partition

coefficient (Koc)

: Not available.

Product name SIGMASHIELD 905 BASE OFFWHITE

## 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 nonrecyclable 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	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)
Transport hazard class (es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### **Additional information**

TDG	: Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.
IMDG	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Special precauti	<b>ons for user</b> : <b>Transport within user's premises:</b> 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 bull to IMO instrume	

## Product name SIGMASHIELD 905 BASE OFFWHITE

## Section 14. Transport information

Proof of classification statement

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).

## 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 : 0 Physical hazards : 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

# The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 3 Flammabili Date of issue/Date of revision	lity : 0 Instability : 0 26 April 2024
Organization that prepared : the SDS	: EHS
Key to abbreviations :	<ul> <li>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</li> </ul>

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.