# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to GHS UN rev. 7

Date of issue/Date of revision 18 February 2024

Version 1

Section 1. Ident	ification
Product code	: 00476251
Product name	: SIGMASHIELD 905 BASE GREY 5163
CAS number	: Not applicable.
Product type	: Liquid.
Other means of identification Not available.	ation
Relevant identified uses	of the substance or mixture and uses advised against
Product use	<ul> <li>Coating. Professional applications, Used by spraying.</li> </ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Company/undertaking identification	: PPG Industries Sales, Inc. and PPG Coatings (Philippines), Inc. 3rd Floor First Life Center 174 Salcedo St., Legaspi Village Makati City 1229, Philippines Tel # 00632- 752-6773/ Fax # 00632-752-6771
Emergency telephone number	: CHEMTREC +(63) 2-395-3308 (CCN 17704)

## Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 71.9%</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 40.4%</li> </ul>
<u>GHS label elements</u> Hazard pictograms	:
Signal word	: Warning

## Section 2. Hazards identification

Hazard statements	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well- ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	Collect spillage. 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	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane	25 - <50	1675-54-3
Talc , not containing asbestiform fibres	10 - <20	14807-96-6
1,6-bis(2,3-epoxypropoxy)hexane	5 - <10	16096-31-4
benzyl alcohol	5 - <10	100-51-6

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.

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

Description of necessary firs	<u>t aid measures</u>
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

## Section 4. First aid measures

Most important symptoms/e	ffe	ts, acute and delayed
Potential acute health effect	ts	
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/symp	ton	<u>15</u>
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.
Indication of immediate med	lica	l attention and special treatment needed, if necessary
Notes to physician	1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	1	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
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	tive 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	ntainment 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	:	Put on appropriate personal protective equipment ( history of skin sensitization problems should not be which this product is used. Do not get in eyes or or Avoid breathing vapor or mist. Avoid release to the adequate ventilation. Wear appropriate respirator Keep in the original container or an approved alterr material, kept tightly closed when not in use. Empt residue and can be hazardous. Do not reuse conta	e employed in any p n skin or clothing. e environment. Us when ventilation is native made from a sy containers retain	process in Do not ingest. e only with inadequate. a compatible
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited handled, stored and processed. Workers should we eating, drinking and smoking. Remove contaminat equipment before entering eating areas. See also information on hygiene measures.	ash hands and fac ed clothing and pr	ce before otective
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35° accordance with local regulations. Store in original sunlight in a dry, cool and well-ventilated area, awa (see Section 10) and food and drink. Keep contain ready for use. Containers that have been opened r kept upright to prevent leakage. Do not store in un appropriate containment to avoid environmental co incompatible materials before handling or use.	container protecte y from incompatib er tightly closed ar must be carefully r labeled containers	ed from direct le materials nd sealed until esealed and . Use
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## Section 8. Exposure controls/personal protection

## Control parameters

#### **Occupational exposure limits**

Ingredient name			Exposure limits		
Talc , not containing asbestife	Talc , not containing asbestiform fibres		TLV (Philippines, 4/2016). TLV: 20 mppf 8 hours. Form: Dust		
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous		
Appropriate engineering controls	:	Use only with adequate ventilation. Use ventilation or other engineering contro contaminants below any recommended	ls to keep worker exposure to airborne		
Environmental exposure controls	:	Emissions from ventilation or work pro	bcess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process		
Individual protection measur	es				
Hygiene measures	:	eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, before y and at the end of the working period. In the the end of the working period. In the the end of the workplace. Wash Ensure that eyewash stations and safety ocation.		
Eye/face protection	:	assessment indicates this is necessar gases or dusts. If contact is possible,	proved standard should be used when a risk y to avoid exposure to liquid splashes, mists, the following protection should be worn, gher degree of protection: chemical splash		
Skin protection					
Hand protection	:	be worn at all times when handling ch this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It athrough for any glove material may be rers. In the case of mixtures, consisting of the gloves cannot be accurately		
Gloves	4	butyl rubber			
Body protection	:		body should be selected based on the task d and should be approved by a specialist		
Other skin protection	:	Appropriate footwear and any addition selected based on the task being perfe approved by a specialist before handli	ormed and the risks involved and should be		
Respiratory protection	:	appropriate standard or certification.	exposure, select a respirator that meets the Respirators must be used according to a ure proper fitting, training, and other important		

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>									
Physical state Color	÷	Liquid.							
Odor	÷	Not available. Characteristic.							
Odor Odor threshold	÷	Not available.							
		Not available.							
Melting point/freezing point Boiling point, initial boiling		>37.78°C (>100°F)							
point, and boiling range	1	-31.78 C (2100 F)							
Flammability	1	Not available.							
Lower and upper explosive (flammable) limits	:	Not available.							
Flash point	1	Closed cup: Not app	licable.						
Auto-ignition temperature	1	Ingredient name		°C		°F		Method	
		benzyl alcohol		436		816.8			
Decomposition temperature	:	Not available.		<u>    I                                </u>		1			
рН	1	Not applicable.							
Viscosity	1	Kinematic (40°C): >21 mm²/s							
		Media	Re	sult					
Solubility(ies)	1	cold water	No	t soluble	Э				
Partition coefficient: n- octanol/water	:	Not applicable.							
Vapor pressure	:		Vapo	· Press	ssure at 20°C Vapor p		apor press	ure at 50°C	
		Ingredient name	mm Hg	kPa	Met	hod	mm Hg	kPa	Method
		1,6-bis (2,3-epoxypropoxy) hexane	0.067505535	0.009					
Relative density	:	1.29			•				
Relative vapor density	:	Not available.							
Particle characteristics									
Median particle size	:	Not applicable.							
Evaporation rate		Not available.							

# 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.

## Section 10. Stability and reactivity

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 materials: carbon oxides metal oxide/oxides
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

## 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	-
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	-

**Conclusion/Summary** 

#### 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** 

Eyes : There are no data available on the mixture itself.

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

#### **Sensitization**

Skin

Route of exposure	Species	Result	
skin	Mouse	Sensitizing	
: There are r	no data available on the	nixture itself.	
: There are r	no data available on the	nixture itself.	
: There are r	no data available on the	nixture itself.	
: There are r	no data available on the	nixture itself.	
: There are r	no data available on the	nixture itself.	
	exposure skin : There are r : There are r : There are r : There are r	exposure       Image: Composite and the second	exposure

## Section 11. Toxicological information

#### **Teratogenicity**

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

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

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

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

Not available.

#### Aspiration hazard

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2

# Information on the likely<br/>routes of exposure: Not available.Potential acute health effects: Causes serious eye irritation.Eye contact<br/>Inhalation: Causes serious eye irritation.Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion	: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

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

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

## Section 11. Toxicological information

- Carcinogenicity **Mutagenicity**
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

- **Reproductive toxicity**
- : No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Dermal	11434.67 mg/kg 16275.88 mg/kg 4.65 mg/l

#### **Other information**

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.

## Section 12. Ecological information

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#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
phonyiphopano	Chronic NOEC 0.3 mg/l	Daphnia	21 days

#### 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
	0.87	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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.

## Section 14. Transport information

	UN	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	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### Additional information

UN	: 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.	
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	<b>ATA</b> : 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 pre	cautions for user : Transport within user's premises: always transport in closed containers that are	

**pecial 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

International regulations

Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants Not listed.

## Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 18 February 2024
Date of previous issue	: No previous validation
Version	: 1
Prepared by	: 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 = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
AQUATIC HAZARD (ACUTE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

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

#### Notice to reader

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 us, 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.