# **SAFETY DATA SHEET**



Date of issue/Date of revision5 February 2024Version 5

Section 1. Identification		
Product code	: 00243592	
Product name	: SIGMAGUARD 720 BASE BLUE 1188	
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Product use	Coating. Professional applications, Used by spraying.	
Supplier's details	: PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737	
Emergency telephone number (with hours of operation)	: CHEMTREC +(65)-31581349 (CCN 17704)	

# Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3	
substance or mixture	ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2	
	8,	
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	
	SKIN SENSITIZATION - Category 1	
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	

**GHS label elements, including precautionary statements** 

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Fammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	

# Section 2. Hazards identification

Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor. Wash thoroughly after handling.
Response	: Set medical advice or attention if you feel unwell. IF INHALED: 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	: Not applicable.
Other hanned which do not	

result in classification

### **Other hazards which do not** : **P**rolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
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### **CAS number/other identifiers**

CAS number EC number	: Not applicable. : Mixture.		
Ingredient name		%	CAS number
prystalline silica, respirat	ble powder (<10 microns)	25 - <50	14808-60-7
reaction product: bispher	nol-A-(epichlorhydrin); epoxy resin	20 - <25	25068-38-6
xylene		5 - <10	1330-20-7
Talc , not containing asbestiform fibres		5 - <10	14807-96-6
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - &lt;5</td><td>25036-25-3</td></mw<=1100)<>		3 - <5	25036-25-3
Phenol, methylstyrenated		1 - <3	68512-30-1
2-methylpropan-1-ol		1 - <3	78-83-1
ethylbenzene		1 - <3	100-41-4

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 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	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.		

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### Section 4. First aid measures

Ingestion

: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

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

wost important symptoms/e	acute and delayed	
Potential acute health effect		
Eye contact	uses serious eye irritation.	
Inhalation	rmful if inhaled.	
Skin contact	uses skin irritation. Defatting to	the skin. May cause an allergic skin reaction.
Ingestion	known significant effects or crit	ical hazards.
<u>Over-exposure signs/symp</u>		
Eye contact	verse symptoms may include th n or irritation tering ness	e following:
Inhalation	specific data.	
Skin contact	verse symptoms may include th ation ness ness cking	e following:
Ingestion	specific data.	
Indication of immediate med	ention and special treatment	needed, if necessary
Notes to physician	eat symptomatically. Contact po antities have been ingested or ir	ison treatment specialist immediately if large haled.
Specific treatments	specific treatment.	
Protection of first-aiders	suspected that fumes are still prosent of the set of th	any personal risk or without suitable training. If it esent, the rescuer should wear an appropriate apparatus. It may be dangerous to the person th resuscitation. Wash contaminated clothing ving it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

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# Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	<ul> <li>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".</li> </ul>
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	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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
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Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** 

Ingredient name	Exposure limits
Fystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2023). [Silica, crystalline] TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
xylene	Respirable Workplace Safety and Health Act (Singapore, 2/2006). [Xylene]
	PEL (short term): 651 mg/m <sup>3</sup> 15 minutes. PEL (short term): 150 ppm 15 minutes. PEL (long term): 434 mg/m <sup>3</sup> 8 hours. PEL (long term): 100 ppm 8 hours.
Talc , not containing asbestiform fibres	Workplace Safety and Health Act (Singapore, 2/2006).
2-methylpropan-1-ol	PEL (long term): 2 mg/m <sup>3</sup> 8 hours. Workplace Safety and Health Act

# Section 8. Exposure controls/personal protection

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ethylbenzene		PEL (lo PEL (lo <b>Workpla</b> <b>(Singap</b> PEL (s PEL (s PEL (lo	bore, 2/2006). ong term): 152 mg/m <sup>3</sup> 8 hours. ong term): 50 ppm 8 hours. ace Safety and Health Act bore, 2/2006). hort term): 543 mg/m <sup>3</sup> 15 minutes. hort term): 125 ppm 15 minutes. ong term): 434 mg/m <sup>3</sup> 8 hours. ong term): 100 ppm 8 hours.		
Recommended monitoring procedures	:	Reference should be made to appropriate mon national guidance documents for methods for t substances will also be required.			
Appropriate engineering controls	:	Use only with adequate ventilation. Use process ventilation or other engineering controls to keep contaminants below any recommended or statu also need to keep gas, vapor or dust concentra- limits. Use explosion-proof ventilation equipment	p worker exposure to airborne utory limits. The engineering controls ations below any lower explosive		
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 measur	es				
Hygiene measures	:	Wash hands, forearms and face thoroughly after eating, smoking and using the lavatory and at the Appropriate techniques should be used to remo Contaminated work clothing should not be allow contaminated clothing before reusing. Ensure showers are close to the workstation location.	he end of the working period. ove potentially contaminated clothing. wed out of the workplace. Wash		
Eye/face protection	:	Chemical splash goggles.			
Skin protection					
Hand protection	:	Chemical-resistant, impervious gloves complyin be worn at all times when handling chemical pr this is necessary. Considering the parameters check during use that the gloves are still retain should be noted that the time to breakthrough f different for different glove manufacturers. In the several substances, the protection time of the g estimated.	oducts if a risk assessment indicates specified by the glove manufacturer, ing their protective properties. It for any glove material may be he case of mixtures, consisting of		
Gloves	:	butyl rubber			
Body protection	:	Personal protective equipment for the body sho being performed and the risks involved and sho before handling this product. When there is a r wear anti-static protective clothing. For the gre discharges, clothing should include anti-static of	ould be approved by a specialist risk of ignition from static electricity, eatest protection from static		

# Section 8. Exposure controls/personal protection

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

<u>Appearance</u>			
Physical state	: 1	Liquid.	
Color	: 1	Blue.	
Odor	: /	Aromatic.	
рН	: i	insoluble in water.	
Boiling point	::	>37.78°C (>100°F)	
Flash point	: (	Closed cup: 27°C (80.6°F)	
Evaporation rate		Highest known value: 0.84 (ethylbenzene) Weighted average: 0.74compared with butyl acetate	
Flammability (solid, gas)	: 1	liquid	
Vapor pressure		Highest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol). Weighted average: 0.82 kPa (6.15 mm Hg) (at 20°C)	
Vapor density	: 1	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.41 (Air = 1)	
Relative density	: 1	1.61	
Colubility/ico)	. [	Media Result	
Solubility(ies)	•	odd water Not soluble	
Auto-ignition temperature	: 1	Lowest known value: >385°C (>725°F) (Phenol, methylstyrenated).	
Viscosity	: [	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	

# Section 10. Stability and reactivity

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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.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
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Caption 10 Stability and reactivity

# Section 10. Stability and reactivity

Hazardous decomposition<br/>products: Depending on conditions, decomposition products may include the following<br/>materials: carbon oxides halogenated compounds metal oxide/oxides

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol-	LD50 Dermal	Rabbit	>2 g/kg	-
A-(epichlorhydrin); epoxy				
resin				
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<>	LD50 Dermal	Rat	>2000 mg/kg	-
<=1100)				
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

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

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
eaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

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

# Section 11. Toxicological information

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Product/ingredient name	Route of exposure	Species		Result		
A-(epichlorhydrin); epoxy resin	l- skin	Mouse		Sensitizing		
Conclusion/Summary		·				
Skin :	There are no data	a available or	the mixture itself.			
Respiratory	There are no data	a available or	the mixture itself.			
Mutagenicity						
Conclusion/Summary	: There are no data	a available o	n the mixture itself.			
<b>Carcinogenicity</b>						
<b>Conclusion/Summary</b>	: There are no data	a available o	n the mixture itself.			
Reproductive toxicity						
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.						
<b>Teratogenicity</b>						
<b>Conclusion/Summary</b>	<b>Conclusion/Summary</b> : There are no data available on the mixture itself.					
Specific target organ toxic	Specific target organ toxicity (single exposure)					
Name			Category	Route of	Target organs	

Name	Category	Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3		Respiratory tract irritation
2-methylpropan-1-ol	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 1	inhalation	-
	Category 2	-	hearing organs

### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.

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### Section 11. Toxicological information

Skin contact: Causes skin irritation. Defatting to the skin. 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 dryness cracking
Ingestion	: No specific data.

Delayed and immediate effects	and also chronic effects	s from short and long term exposure
Short term exposure		

Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	<u>ect</u>	<u>S</u>
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	1	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
☑ermal	14615.89 mg/kg
Inhalation (vapors)	34.41 mg/l
Inhalation (dusts and mists)	4.42 mg/l

### Other information

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# Section 11. Toxicological information

Frolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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. Avoid contact with skin and clothing.

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol ethylbenzene	Acute EC50 1100 mg/l Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours 48 hours -

**Conclusion/Summary** 

: There are no data available on the mixture itself.

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
A-(epichlorhydrin); epoxy	OECD 301F	5 % - 28 days	-	-
resin ethylbenzene	-	79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Peaction product: bisphenol- A-(epichlorhydrin); epoxy resin	-	-	Not readily
xylene ethylbenzene	-		Readily Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Peaction product: bisphenol- A-(epichlorhydrin); epoxy	2.64 to 3.78	31	Low
resin			
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

### Mobility in soil

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# Section 12. Ecological information

Soil/water partition coefficient (K<sub>oc</sub>)

: 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

UN	: 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.

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# Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

None.

### 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	: 5 February 2024
Date of previous issue	: 2/21/2020
Version	: 5
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 = 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) UN = United Nations</li> </ul>

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 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.