# **SAFETY DATA SHEET**



Date of issue/Date of revision9 December 2024Version 1.01

Section 1. Identification			
Product code	: 00442560		
Product name	: SIGMASHIELD 420/460/880/880GF HARDENER		
Product type	: Liquid.		
Relevant identified uses of 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 substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 1C SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements, including precautionary statements

: Danger
<ul> <li>Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. (hearing organs)</li> </ul>

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### Section 2. Hazards identification

Prevention	: Wear protective gloves, protective clothing and 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	INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

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

CAS number	Not applicable.
EC number	Mixture.

Ingredient name	%	CAS number
Epoxy Amine Resin	25 - <50	SUB123903
Propylidynetrimethanol, propoxylated, reaction products with ammonia	10 - <20	39423-51-3
ethylbenzene	10 - <20	100-41-4
benzyl alcohol	10 - <20	100-51-6
xylene	5 - <10	1330-20-7
2-methylpropan-1-ol	5 - <10	78-83-1
m-phenylenebis(methylamine)	3 - <5	1477-55-0
2,4,6-tris(dimethylaminomethyl)phenol	3 - <5	90-72-2

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**

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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.	\$
Eye contact	t -	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.	

## Section 4. First aid measures

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	: 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/e	ffects, acute and delayed		
Potential acute health effe	e <u>ts</u>		
Eye contact	: Causes serious eye damage.		
Inhalation	: Harmful if inhaled.		
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.		
Ingestion	: Harmful if swallowed.		
Over-exposure signs/sym	<u>toms</u>		
Eye contact	: Adverse symptoms may include the following: pain watering redness		
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur		
Ingestion	: Adverse symptoms may include the following: stomach pains		
Indication of immediate me	lical attention and special treatment needed, if necessary		
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
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 dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

Singapore	English (US)	
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### Section 5. Fire-fighting measures

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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	cuate surrounding area ering. Do not touch or v lares, smoking or flame quate ventilation. Wea	volving any personal risk or without suitable training. s. Keep unnecessary and unprotected personnel from valk through spilled material. Shut off all ignition sources. es in hazard area. Do not breathe vapor or mist. Provide appropriate respirator when ventilation is inadequate. I protective equipment.
For emergency responders		uired to deal with the spillage, take note of any suitable and unsuitable materials. See also the ergency personnel".
	ns and sewers. Inform ronmental pollution (se	aterial and runoff and contact with soil, waterways, the relevant authorities if the product has caused wers, waterways, soil or air).
Methods and materials for co	ent and cleaning up	
Small spill	osion-proof equipment rnatively, or if water-ins	ove containers from spill area. Use spark-proof tools and Dilute with water and mop up if water-soluble. oluble, absorb with an inert dry material and place in an container. Dispose of via a licensed waste disposal
Large spill	osion-proof equipment ers, water courses, bas lent treatment plant or p ubustible, absorbent ma place in container for d pose of via a licensed w erial may pose the sam	by e containers from spill area. Use spark-proof tools and Approach release from upwind. Prevent entry into ements or confined areas. Wash spillages into an proceed as follows. Contain and collect spillage with non- terial e.g. sand, earth, vermiculite or diatomaceous earth isposal according to local regulations (see Section 13). aste disposal contractor. Contaminated absorbent e hazard as the spilled product. Note: see Section 1 for tion and Section 13 for waste disposal.

### 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 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. Store locked up. 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		
ethylbenzene	Workplace Safety and Health Act (Singapore, 2/2006) PEL (long term) 8 hours: 100 ppm. PEL (long term) 8 hours: 434 mg/m <sup>3</sup> . PEL (short term) 15 minutes: 543 mg/m <sup>3</sup> . PEL (short term) 15 minutes: 125 ppm		
xylene	PEL (short term) 15 minutes: 125 ppm. Workplace Safety and Health Act (Singapore, 2/2006) [Xylene] PEL (long term) 8 hours: 100 ppm. PEL (long term) 8 hours: 434 mg/m <sup>3</sup> . PEL (short term) 15 minutes: 651 mg/m <sup>3</sup> .		
2-methylpropan-1-ol	PEL (short term) 15 minutes: 150 ppm. Workplace Safety and Health Act (Singapore, 2/2006)		

### Section 8. Exposure controls/personal protection

m-phenylenebis(methylamine	e)		PEL (long term) 8 hours: 50 ppm. PEL (long term) 8 hours: 152 mg/m <sup>3</sup> . Workplace Safety and Health Act (Singapore, 2/2006) PEL (short term) 15 minutes: 0.1 mg/m <sup>3</sup> .		
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	:	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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			
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 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 and face shield.			
Skin protection					
Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break different for different glove manufacture	nical-resistant, impervious gloves complying with an approved standard should orn at all times when handling chemical products if a risk assessment indicates s necessary. Considering the parameters specified by the glove manufacturer, k during use that the gloves are still retaining their protective properties. It ld be noted that the time to breakthrough for any glove material may be rent for different glove manufacturers. In the case of mixtures, consisting of ral substances, the protection time of the gloves cannot be accurately nated.		
Gloves	1	nitrile neoprene			
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.			
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	: 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.
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### Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Odor	Characteristic.	
рН	insoluble in water.	
Boiling point	>37.78°C (>100°F)	
Flash point	Closed cup: 29°C (84.2°F)	
Evaporation rate	Not available.	
Flammability (solid, gas)	liquid	
Vapor pressure	Not available.	
Vapor density		
Relative density	0.99	
Solubility(ies)	Media Result	
Solubility (ies)	cold water Not soluble	
Auto-ignition temperature	Not available.	
Viscosity	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	

## 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.
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 nitrogen oxides

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### Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Propylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rabbit	0.4 g/kg	-
	LD50 Oral	Rat	0.22 g/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	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
-	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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	-
m-phenylenebis (methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rat	1280 mg/kg	-
'	LD50 Oral	Rat	1200 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<mark>xy</mark> lene m-phenylenebis (methylamine)	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rat	-	24 hours 500 mg 4 hours	- 4 hours

Conclusion/Summary

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

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

Product/ingredient name	Route of exposure	Species	Result
m-phenylenebis (methylamine)	skin	Mouse	Sensitizing

#### **Conclusion/Summary**

Skin

: There are no data available on the mixture itself.

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## Section 11. Toxicological information

Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Carcinogenicity	
<b>Conclusion/Summary</b>	: There are no data available on 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>	: There are no data available on the mixture itself.
Specific target organ tox	<u>icity (single exposure)</u>

Name	Category	Route of exposure	Target organs
xylene	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
ethylbenzene	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 effect	<u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.

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### Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effe	and also chronic effects from short and long term exposure	
Short term exposure		
Potential immediate effects	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 eff		
General	May cause damage to organs through prolonged or repeated exposure. Prolonger 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.	Ł
Carcinogenicity	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

Route	ATE value	
Øral	1296.89 mg/kg	
Dermal	2968.93 mg/kg	
Inhalation (gases)	51087.68 ppm	
Inhalation (vapors)	29.92 mg/l	
Inhalation (dusts and mists)	3.09 mg/l	

#### Other information

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### Section 11. Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. 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. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris	Acute LC50 >100 mg/l	Daphnia	48 hours
(dimethylaminomethyl)phenol			
	Acute LC50 >100 mg/l	Fish	96 hours
Conclusion/Summary : There are no data available on the mixture itself.			

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
€fhylbenzene 2,4,6-tris (dimethylaminomethyl)phenol	- OECD 301D Ready Biodegradability - Closed Bottle Test	79 % - Readily - 10 days 4 % - Not readily - 28 days	-	-
Conclusion/Summary	: There are no d	lata available on the mixture itse	elf.	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethylbenzene benzyl alcohol xylene		- - -	Readily Readily Readily
2,4,6-tris (dimethylaminomethyl)phenol	-	-	Not readily

#### **Bioaccumulative potential**

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### Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
ropylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	Low
ethylbenzene	3.6	79.43	Low
benzyl alcohol	0.87	-	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
m-phenylenebis (methylamine)	0.18	2.69	Low
2,4,6-tris (dimethylaminomethyl)phenol	0.219	-	Low

#### **Mobility in soil**

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

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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	IATA
UN number	UN3469	UN3469	UN3469
UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8)	3 (8)	3 (8)
Packing group	III	III	
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### Section 14. Transport information

	•		
Environmental	No.	No.	No.
hazards			
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.

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

Singapore -	hazardous	chemicals	under	<u>qovernment</u>	control
				-	

None.

International regulations Montreal Protocol Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

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### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 9 December 2024
Date of previous issue	: 2/23/2024
Version	: 1.01
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)</li> </ul>

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### Section 16. Other information

UN = United Nations

#### 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.