# **SAFETY DATA SHEET**



# Date of issue/Date of revision23 November 2022Version 10.05

Section 1. Identification		
Product code	: 00322212	
Product name	: SIGMADUR ONE GREEN 4199	
Product type	: Liquid.	
Relevant identified uses o	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

substance or mixture S	: FLAMMABLE LIQUIDS - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**GHS label elements, including precautionary statements** 

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))</li> </ul>
Precautionary statements	

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## Section 2. Hazards identification

Prevention	: Obtain special instructions before use. 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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe vapor.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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 in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

result in classification

## Section 3. Composition/information on ingredients

: Mixture

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

CAS number	: Not applicable.
EC number	: Mixture.

#### Ingredient name % **CAS number** Maphtha (petroleum), hydrotreated heavy 10 - <20 64742-48-9 Naphtha (petroleum), hydrodesulfurized heavy 5 - <10 64742-82-1 Talc, not containing asbestiform fibres 1 - <3 14807-96-6 1-methoxy-2-propanol 1 - <3 107-98-2 nonane 1 - <3 111-84-2 2-ethylhexanoic acid, zirconium salt 1 - <3 22464-99-9 0.1 - <0.3 calcium bis(2-ethylhexanoate) 136-51-6 0.1 - < 0.3 96-29-7 2-butanone oxime neodecanoic acid, cobalt salt 0.1 - < 0.3 27253-31-2

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 necessa	ry 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	: 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.

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# Section 4. First aid measures

Skin contact	1	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	1	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

Potential acute health effe	cts
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Indication of immediate me	dical 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.

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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 sulfur 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, protect	ve 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 sourc 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	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	tainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools a 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 a 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 a 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 ne combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous ea 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.
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## Section 6. Accidental release measures

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures :	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
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

<u>Control parameters</u> <u>Occupational exposure limits</u>

# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits			
$\overline{\mathbf{r}}$ alc , not containing asbestiform fibres		Workplace Safety and Health Act (Singapore, 2/2006).		
1		PEL (long term): 2 mg/m <sup>3</sup> 8 hours.		
1-methoxy-2-propanol		Workplace Safety and Health Act		
		(Singapore, 2/2006). [Propylene glycol		
		PEL (short term): 553 mg/m <sup>3</sup> 15 minutes.		
		PEL (short term): 555 fig/iii 15 minutes. PEL (short term): 150 ppm 15 minutes.		
		PEL (long term): 369 mg/m <sup>3</sup> 8 hours.		
		PEL (long term): 100 ppm 8 hours.		
nonane		Workplace Safety and Health Act		
		(Singapore, 2/2006).		
		PEL (long term): 1050 mg/m <sup>3</sup> 8 hours.		
		PEL (long term): 200 ppm 8 hours.		
2-ethylhexanoic acid, zircor	ium salt	Workplace Safety and Health Act		
		(Singapore, 2/2006). [Zirconium and		
		compounds]		
		PEL (short term): 10 mg/m <sup>3</sup> , (Zr) 15		
		minutes.		
	14	PEL (long term): 5 mg/m <sup>3</sup> , (Zr) 8 hours.		
neodecanoic acid, cobalt sa	IL	Workplace Safety and Health Act		
		(Singapore, 2/2006). [Cobalt, elemental and inorganic compounds]		
		PEL (long term): 0.02 mg/m <sup>3</sup> , (Co) 8 hours.		
Recommended monitoring procedures	nationa	I be made to appropriate monitoring standards. Reference to documents for methods for the determination of hazardous so be required.		
ppropriate engineering ontrols	ventilati contam also ne	equate ventilation. Use process enclosures, local exhaust er engineering controls to keep worker exposure to airborne ow any recommended or statutory limits. The engineering controls o gas, vapor or dust concentrations below any lower explosive sion-proof ventilation equipment.		
nvironmental exposure ontrols	they col cases, t	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.		
ndividual protection measu	res			
<b>Hygiene measures</b> : Wash hands, forearms and face thoroughly after handling chemical product eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated Wash contaminated clothing before reusing. Ensure that every stations				

Eye/face protection: Chemical splash goggles.

## Skin protection

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Wash contaminated clothing before reusing. Ensure that eyewash stations and

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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	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: neoprene, natural rubber (latex), butyl rubber, nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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	<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	Liquid.		
Color	: Green.		
Odor	: Aromatic. [Slight]		
рН	insoluble in water.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 33°C (91.4°F)		
Evaporation rate	Highest known value: 0.814 (1-methoxy-2-propanol) Weighted average: 0.63compared with butyl acetate		
Flammability (solid, gas)	liquid		
Vapor pressure	: Highest known value: 1.1 kPa (8.5 mm Hg) (at 20°C) (1-methoxy-2-propanol). Weighted average: 0.34 kPa (2.55 mm Hg) (at 20°C)		
Vapor density	: Highest known value: 4.4 (Air = 1) (nonane). Weighted average: 3.71 (Air = 1)		
Relative density	: 1.08		
	Media Result		
Solubility(ies)	cold water Not soluble		
Auto-ignition temperature	Lowest known value: 205°C (401°F) (nonane).		
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## **Section 9. Physical and chemical properties**

Viscosity	
viscosity	

: Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Viscosity : 60 - 100 s (ISO 6mm)

# 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 sulfur oxides halogenated compounds metal oxide/oxides	

## Section 11. Toxicological information

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Maphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
Naphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
nonane	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapor	Rat	16790 mg/m <sup>3</sup>	4 hours
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
neodecanoic acid, cobalt salt	LD50 Oral	Rat - Female	1098 mg/kg	-

## Irritation/Corrosion

## Irritation/Corrosion

#### Conclusion/Summary Skin

: There are no data available on the mixture itself.

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# Section 11. Toxicological information

: There are no data available on the mixture itself.

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

## **Sensitization**

Eyes

•	Route of exposure	Species	Result	
neodecanoic acid, cobalt salt	skin	Mouse	Sensitizing	
Conclusion/Summany				

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<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.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

## Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract irritation
Naphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
nonane	Category 3	-	Narcotic effects
2-butanone oxime	Category 1	-	upper respiratory tract
	Category 3		Narcotic effects

## Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy 2-butanone oxime neodecanoic acid, cobalt salt	Category 1 Category 2 Category 1	- - oral	central nervous system (CNS) blood system gastrointestinal tract

## **Aspiration hazard**

# Section 11. Toxicological information

Name	Result
Naphtha (petroleum), hydrodesulfurized heavy	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure	
Potential acute health effects	
Eye contact : Causes serious eye irritation.	
Inhalation : May cause respiratory irritation.	
Skin contact : Defatting to the skin. May cause skin dryness and irritation	n.
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 :	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact :	Adverse symptoms may include the following: irritation dryness cracking
Ingestion :	No specific data.

Delayed and immediate ef	ects and also chronic effects from short	and long term exposure
<u>Short term exposure</u>		
Defended by an all after	. Net evelleble	

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Reproductive toxicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Potential chronic health eff	
Potential delayed effects	: Not available.
Potential immediate effects	: Not available.
<u>Long term exposure</u>	
Potential delayed effects	: Not available.
Potential immediate effects	: Not available.

## Section 11. Toxicological information

### Numerical measures of toxicity

## Acute toxicity estimates

Route	ATE value
Inhalation (gases)	50694.51 mg/kg 129216.79 ppm 677.98 mg/l

#### **Other information**

Prolonged 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

Product/ingredient name	Result	Species	Exposure
1-methoxy-2-propanol 2-ethylhexanoic acid, zirconium salt	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water Acute LC50 >100 mg/l	Daphnia Fish Fish	48 hours 96 hours 96 hours
Conclusion/Summary	: There are no data available on the	mixture itself.	·

#### Persistence/degradability

#### Not available.

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

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<ul> <li>methoxy-2-propanol</li> <li>nonane</li> <li>2-butanone oxime</li> </ul>	<1	-	low
	5.65	-	high
	0.63	5.01	low

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.

#### Other adverse effects

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: 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 PAINT shipping name		PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental No. hazards		No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

/	
UN	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.
IMDG	<ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.</li> </ul>
IATA	: None identified.
Special prec	autions for user : Transport within user's premises: always transport in closed containers that are

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

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# 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	: 23 November 2022
Date of previous issue	: 6/24/2022
Version	: 10.05
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>

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.