# SAFETY DATA SHEET



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

Date of issue/Date of revision 25 November 2022 Version 10.06

# Section 1. Identification

Product code	:	00250780
Product name	:	SIGMARINE 48 GREY 5163
Product type	:	Liquid.
Other means of identification Not available.		
Relevant identified uses of th	e	substance or mixture and uses advised against
Product use	:	Coating. Professional applications, Used by spraying.
Uses advised against	:	Product is not intended, labelled or packaged for consumer use.
Supplier's information	:	PPG Asian Paints Private Limited 6A Shanti Nagar Santa Cruz (East) Mumbai - 400055 India
Emergency telephone number:	:	+91 22 6815 8700

# Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 37.9%</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour. Causes mild skin irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	

### Section 2. Hazards identification

Prevention	Vear protective gloves, protective clothing and eye or face protection. Keep awa om heat, hot surfaces, sparks, open flames and other ignition sources. No moking. Use only outdoors or in a well-ventilated area. Avoid release to the nvironment. Do not breathe vapour. Do not eat, drink or smoke when using thi roduct. Wash thoroughly after handling.	
Response	collect spillage. Get medical advice/attention if you feel unwell. IF INHALED: temove person to fresh air and keep comfortable for breathing. Call a POISON ENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately ontaminated clothing. Rinse skin with water. If skin irritation occurs: Get medic dvice or attention.	y all
Storage	tore locked up. Store in a well-ventilated place. Keep container tightly closed.	
Disposal	ispose of contents and container in accordance with all local, regional, national nd international regulations.	
Other hazards which do not	rolonged or repeated contact may dry skin and cause irritation.	

result in classification

**CAS number/other identifiers** 

2-ethylhexanoic acid, zirconium salt

calcium bis(2-ethylhexanoate)

0.3 - <1

0.1 - < 0.3

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number	: Not applicable.	
Ingredient name		%
Maphtha (petroleum), hydrod nonane	desulfurized heavy	25 - <50 3 - <5 3 - <5 1 - <3 1 - <3
Talc , not containing asbesti	form fibres	3 - <5
1,2,4-trimethylbenzene		1 - <3
xylene		1 - <3

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

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

### Potential acute health effects

<b>Eye contact</b> : No known significant effects or critical hazards.	
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**CAS number** 

64742-82-1 111-84-2

14807-96-6

22464-99-9

136-51-6

95-63-6 1330-20-7

### Section 4. First aid measures

Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>	
Skin contact	: Causes mild skin irritation. Defatting to the skin.	
Ingestion	: Can cause central nervous system (CNS) depression.	
<u>Over-exposure signs/sym</u>	<u>ptoms</u>	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking	
Ingestion	: No specific data.	
Indication of immediate me	dical attention and special treatment needed, if necessary	
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	
Specific treatments Protection of first-aiders	<ul> <li>No specific treatment.</li> <li>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.</li> </ul>	

See toxicological information (Section 11)

# Section 5. Firefighting 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 vapour. 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. 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	: 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.

### Section 5. Firefighting measures

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	<ul> <li>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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</li> </ul>
For emergency responders	<ul> <li>If specialised 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 spilt 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 material for con	tainment 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 the 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 spill 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 (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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.

# Section 7. Handling and storage

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 oxidising 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 unlabelled 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	
nonane		ACGIH TLV (United States, 1/2022). TWA: 200 ppm 8 hours. TWA: 1050 mg/m <sup>3</sup> 8 hours.	
Talc , not containing asbesti	form fibres	ACGIH TLV (United States, 1/2022). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable	
1,2,4-trimethylbenzene		ACGIH TLV (United States, 1/2022).	
		TWA: 10 ppm 8 hours.	
xylene		ACGIH TLV (United States, 1/2022).	
		[xylene]	
		STEL: 651 mg/m³ 15 minutes. TWA: 434 mg/m³ 8 hours.	
		TWA: 20 ppm 8 hours.	
2-ethylhexanoic acid, zircon	um salt	ACGIH TLV (United States, 1/2022).	
		[Zirconium and compounds]	
		STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes.	
		TWA: 5 mg/m³, (as Zr) 8 hours.	
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	ventilation or other engineering contaminants below any recomi also need to keep gas, vapour o	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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	
Environmental exposure controls	: Emissions from ventilation or we they comply with the requirement cases, fume scrubbers, filters o	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 measures**

Product code 00250780 Product name SIGMARINE 48 GREY 5163

### Section 8. Exposure controls/personal protection

Hygiene measures	Vash hands, forearms and face thoroughly after handling chemical products, bef ating, smoking and using the lavatory and at the end of the working period. ppropriate techniques should be used to remove potentially contaminated clothi Vash contaminated clothing before reusing. Ensure that eyewash stations and afety showers are close to the workstation location.	ng.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk ssessment indicates this is necessary to avoid exposure to liquid splashes, mist ases or dusts. If contact is possible, the following protection should be worn, nless the assessment indicates a higher degree of protection: chemical splash oggles.	
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should ever at all times when handling chemical products if a risk assessment indication is is necessary. Considering the parameters specified by the glove manufactur heck during use that the gloves are still retaining their protective properties. It hould be noted that the time to breakthrough for any glove material may be ifferent for different glove manufacturers. In the case of mixtures, consisting of everal substances, the protection time of the gloves cannot be accurately stimated.	tes
Gloves	or prolonged or repeated handling, use the following type of gloves:	
	Recommended: polyvinyl alcohol (PVA), Viton® /lay be used: nitrile rubber	
Body protection	Personal protective equipment for the body should be selected based on the task eing performed and the risks involved and should be approved by a specialist efore handling this product. When there is a risk of ignition from static electricity year anti-static protective clothing. For the greatest protection from static ischarges, clothing should include anti-static overalls, boots and gloves.	
Other skin protection	ppropriate footwear and any additional skin protection measures should be elected based on the task being performed and the risks involved and should be pproved by a specialist before handling this product.	÷
Respiratory protection	based on the hazard and potential for exposure, select a respirator that meets the ppropriate standard or certification. Respirators must be used according to a espiratory protection program to ensure proper fitting, training, and other importa spects of use.	

# Section 9. Physical and chemical properties

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

Appearance	
Physical state	: Liquid.
Colour	: Grey.
Odour	: Aromatic. [Slight]
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: >37.78°C (>100°F)
Flammability	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Flash point	: Closed cup: 44°C (111.2°F)
Auto-ignition temperature	:

Product code 00250780 Product name SIGMARINE 48 GREY 5163				ate of i	<mark>ssue</mark> 25 N	lovembe	er 2022	Version 10.06
Section 9. Physica		and chemica	l prop	ertie	)S			
		Ingredient name		°C	°F		Method	
		nonane		205	401			
Decomposition temperature	:	Not available.						
рН	:	Not applicable.						
Viscosity	:	Kinematic (40°C): >	21 mm²/s					
Viscosity	1	> 100 s (ISO 6mm)						
		Media	Re	sult				
Solubility(ies)	ł	cold water	old water Not soluble					
Partition coefficient: n- octanol/water	:	Not applicable.						
Vapour pressure	:	Vapour Pressure a			sure at 20°	at 20°C Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		x lene	6.7	0.89				
Relative density	:	1.01			ļ			
Relative vapour 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.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products Hazardous polymerisation	<ul> <li>Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides</li> <li>Under normal conditions of storage and use, hazardous polymerisation will not occur.</li> </ul>

# Section 11. Toxicological information

Information on toxicological effects Acute toxicity

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Maphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
nonane	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapour	Rat	16790 mg/m <sup>3</sup>	4 hours
1,2,4-trimethylbenzene	LC50 Inhalation Vapour	Rat	18000 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

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

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

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
nonane	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

# Section 11. Toxicological information

Name		Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1		central nervous system (CNS)

#### **Aspiration hazard**

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

Information on likely routes of exposure	:	Not available.
Potential acute health effects	5	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	Causes mild skin irritation. Defatting to the skin.
Ingestion	1	Can cause central nervous system (CNS) depression.
Symptoms related to the phy	<u>/sic</u>	cal, chemical and toxicological characteristics
Eye contact		Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact		Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	1	No specific data.
Delayed and immediate effect	:ts	as well as 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	ect	<u>S</u>
Not available.		

## Section 11. Toxicological information

	—
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.
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
Oral	70387.38 mg/kg
Dermal	15459.63 mg/kg
Inhalation (gases)	24297.73 ppm
Inhalation (vapours)	60.07 mg/l
Inhalation (dusts and mists)	11.49 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 vapour/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
ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>x</b> ylene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
nonane	5.65	-	high
1,2,4-trimethylbenzene	3.63	120.23	Iow
xylene	3.12	7.4 to 18.5	Iow

#### **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 minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

P			
	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	=	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Naphtha (petroleum), hydrodesulfurized heavy, nonane)	Not applicable.

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

**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

International regulations

Montreal Protocol

Not listed.

History

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

# Section 16. Other information

History	
Date of issue/Date of revision	: 25 November 2022
Date of previous issue	: 2/23/2022
Version	: 10.06
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>

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	On basis of test data Calculation method Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method Calculation method 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.