



SAFETY DATA SHEET

SUMI ALPHA 200 EW

Revision Date: 18/11/2021
Revision Number: 01

1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the product/preparation

Product Name: **SUMI ALPHA 200 EW**
Registration Number: L8821
Product use: An emulsion in water contact insecticide

Active Ingredient

Esfenvalerate (Pyrethroid)
CAS Number: 66230-04-0

Supplier

Company Name: PHILAGRO SOUTH AFRICA (PTY) LTD
Address: 1st Floor, The Corner Office
410 Lynnwood Road
LYNNWOOD RIDGE 0040
Telephone: +27(0) 12 348 8808
Fax: +27(0) 12 348 3500
E-mail Address: info@philagro.co.za

Emergency Telephone Numbers:

Medical information in case of poisoning

Griffon Poison Information Centre: +27(0) 82 446 8946
Tygerberg Hospital Poison Centre: +27(0) 86 155 5777

Relevant identified uses of the product and uses advised against

The product is used as a broad spectrum non-selective pyrethroid insecticide.
The product should not be used for any other purpose or in any other manner contrary to the information supplied on the product label.

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Hazardous Chemical Agents Regulations - 2021.

Classification

HAZARD CLASS	CATEGORY	HAZARD STATEMENT NUMBER
Flammable Liquids	4	H227
Acute Toxicity Oral	4	H302
Acute Toxicity Inhalation	4	H332
Skin Corrosion/Irritation	2	H315
Serious Eye Damage/Irritation	2A	H319
Skin Sensitization	1	H317
STOT SE – Nervous System	1	H370

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STOT RE	2	H373
Aquatic Toxicity - Acute	1	H400
Aquatic Toxicity - Chronic	1	H410

Label Elements

South Africa. GHS classification and labelling of chemicals – SANS10234, and the Regulations for Hazardous Chemical Agent - 2021.

Pictogram/s:



Signal Word:

Danger

Hazard Statements:

Statement Number	Hazard Statement
H227	Combustible liquid.
H302	Harmful if swallowed
H315	Causes skin irritation.
H317	May cause allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention

Statement Number	Statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing fumes/vapours/spray.
P264	Wash hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection and face protection.

Response

Statement Number	Statement
P319	Get medical help if you feel unwell.
P321	Specific treatment as described in Section 4 of this SDS when necessary.



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P330	Rinse mouth.
P391	Collect spillage.
P301 + P317	IF SWALLOWED: Get medical help.
P302 + P352	IF ON SKIN: Wash with plenty of water under the safety shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P316	If exposed or concerned: Get emergency medical help immediately.
P333 + P317	If skin irritation or rash occurs: Get medical help.
P337 + P317	If eye irritation persists: Get medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use the available fire-fighting equipment to extinguish the fire.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Storage Statement Number

P403	Store in a well-ventilated place.
P405	Store locked up.

Disposal Statement Number

P501	Dispose of contents or container to an approved waste disposal facility.
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Other Hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Common Name:	SUMI ALPHA 200 EW
IUPAC/Chemical Name:	(S)- α -Cyano-3-phenoxybenzyl (S)-2-(4-chlorophenyl)-3-methylbutyrate
Chemical Family:	Pyrethroid insecticide
Formulation:	Emulsion oil in water

Ingredients with Hazard Concerns (GHS):

According to UN GHS criteria.

Hazardous Component	CAS Number	Weight - %	GHS Classification
Esfenvalerate	66230-04-0	23%	Acute Toxicity Oral, Category 3. Acute Toxicity Inhalation, Category 3. Skin Sensitization, Category 1. STOT - SE, Category 1. STOT - RE, Category 2. Aquatic Toxicity - Acute, Category 1. M Factor = 10 000. Aquatic Toxicity - Chronic, Category 1. M Factor = 10 000.
Light Aromatic Petroleum Solvent	64742-95-6	10 – 30%	Aspiration Hazard, Category 1. Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2A.



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			STOT - SE, Category 3 for Narcotic Effect and Respiratory Irritation. Flammable Liquid, Category 3. Aquatic Toxicity - Chronic, Category 3.
Polyvinyl Alcohol	9002-89-5	<10%	Acute Toxicity Oral, Category 3.

NOTE: The other ingredients e.g. the emulsifier, acidifier, defoamer, etc. not included above, do not cause or contribute towards the correct GHS classification of SUMI ALPHA 200 EW and is therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b), not listed.

4. FIRST AID MEASURES

Description of First-Aid Measures

General Advice Immediately remove contaminated clothing and move the affected person from the contamination area. Keep the person warm, calm and covered up. First aid personnel should pay attention to their own safety. In case of accident or if unwell, seek medical advice immediately. Provide this SDS and the label to medical personnel for treatment.

Eye Contact Do not rub eyes. Immediately rinse/flush the eyes gently with water from the eye wash fountain for several minutes (at least 15 minutes), while holding the eyelids apart. If relevant - remove contact lenses if easy to do so. Continue rinsing. Obtain medical attention if irritation occurs and persists.

Skin Contact Immediately remove all contaminated clothing. Rinse the skin with plenty of cold water for 15 to 20 minutes under the safety shower. Do not rub the skin. Contact a poison control center or medical practitioner if irritation persists. Wash contaminated clothing before re-use.

Inhalation Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the product; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If the patient is conscious, rinse nose, mouth and throat with water.

Ingestion If swallowed, immediately seek medical attention and show the container label, or this Safety Data Sheet to the medical practitioner. If conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Treat symptomatically and supportively. For advice, contact a Poisons Centre or a medical practitioner.

Medical Advice

No specific antidote. Symptomatic treatment and supportive therapy as indicated.

Most important symptoms/effects, acute and delayed

Following substantial ingestion of Esfenvalerate, patients may develop coma, convulsions and severe muscle fasciculation and may take several days, occasionally weeks, to recover. Brief exposure may result in respiratory tract irritation with coughing and sneezing. Dermal exposure may result in tingling and pruritus with blotchy erythema on the



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face or other exposed areas, exacerbated by sweating or touching. Ocular exposure may result in lacrimation and transient conjunctivitis.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	For small fires, use carbon dioxide, dry chemical (powder) foam or water spray. Foam and dry chemicals are recommended to minimize the environmental impact. Do not use high volume water jets due to potential contamination. If water is used for firefighting, dike and collect water to prevent run-off from the site.
Specific hazards arising from the chemical	Combustible. Combustion and/or pyrolysis of Esefenvalerate in case of fire generates irritating, toxic and corrosive fumes (or gasses) such as acrolein, formaldehyde, hydrogen cyanide and hydrogen chloride.
Special protective equipment and precautions for fire-fighters	Firefighters must wear emergency equipment including positive pressure self-contained breathing apparatus with a full-face mask. Remove unaffected containers from fire area if possible. Evacuate the area and fight the fire upwind and from a safe distance to avoid exposure to hazardous combustion products and the inhalation of hazardous vapours and fumes from burning material. Avoid pollution of waterways by run-off from the site. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local and national regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	Eliminate all ignition sources. Do not breathe in fumes/vapour and avoid contact with eyes, skin and clothes. Ventilate the area of the spill, especially when in confined areas. Do not touch or walk through spilled material. Contain spills if it can be done without risk. Wear appropriate protective clothing recommended in Section 8 of the SDS.
Environmental precautions.	Prevent further spillage if safe to do so. Do not allow the spilt product to enter water courses and drains and avoid contact with soil. Do not allow the spilt product to spread to other areas - keep the spilt material contained and isolated. Report spills and releases as required to appropriate authorities if the spilt product has caused environmental pollution (sewers, water ways, soil or air).
Methods for cleaning up	For small spills, shovel up with absorbent material using spark-resistant tools. Place into a labelled waste container and dispose of collected spilt material as hazardous waste. For large spills, do not wash away into sewers. Contain and collect spilt product in suitable containers for proper disposal. If spill is in water, contain contaminated water for disposal as hazardous waste.

7. HANDLING AND STORAGE

Precautions for safe handling	Read the label before use. Use in a well-ventilated area away from all ignition sources. Prevent contact with eyes, skin and clothing. Do not breathe in
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vapours/spray mists. Wear protective clothing and equipment during handling as described in Section 8 of the SDS. If clothing gets contaminated with the product, change to clean clothing promptly. Do not eat or drink during use. Wash the hands and face thoroughly after handling with soap. Keep containers closed when not in use. Do not permit smoking in use or storage areas.

Locate emergency showers and eye-rinsing facility near the work/handling area. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is used/handled.

Conditions for safe storage, including any incompatibilities

The entrance to storage facilities should be granted only to appropriately trained personnel. Always store locked up and keep containers tightly closed. Store in the original, unopened container. The formulation is stable if stored well ventilated, cool and free of moisture and high humidity. Store below 30°C. Keep out of reach of children, uninformed persons and animals. Protect containers from physical damage. Check the condition of storage containers periodically. Do not store with seed, fertilisers or foodstuffs in order to prevent contamination.

NOTE: The product is physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters – National Occupational Exposure Limits

No occupational exposure limit for any of the ingredients contributing towards the classification of SUMI ALPHA 200 EW have been established. The ingredients may however pose a health risk.

Appropriate engineering controls

Use with general or adequate local exhaust ventilation to maintain airborne concentrations as low as possible. Ensure adequate ventilation in confined areas. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal Protective Equipment

Respiratory Protection

In operations where the risk assessment indicates that there could be a high level of exposure (e.g., when exposure to mist or spray is expected), an approved respirator (half/full face mask) with a particulate filter and an organic vapour cartridge or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Skin and Hand Protection

Impervious chemical resistant gloves recommended (e.g., butyl rubber, nitrile, neoprene rubber, polyvinyl chloride). Information on glove penetration time is available from the manufacturer of the glove. Wash gloves when contaminated and dispose of and replace immediately when contaminated inside, when perforated, when contamination on the outside cannot be removed or when signs of damage. Impervious coveralls, apron, shoes and socks are required to prevent skin contact and contamination of personal clothing. Overalls must be buttoned to the neck and sleeves worn over the gloves.

Eye/Face Protection

Safety eyewear compliant with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, vapour or mists. Safety goggles and a full face-shield to prevent contact with the



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product, are recommended.

General Safety and Hygiene Measures

Handle the product in accordance with good industrial hygiene and safety practice. An eye wash fountain and safety showers should be available and easily accessible. Avoid contact with the skin, eyes and clothing and immediately remove all contaminated clothing. Wash the hands and/or face before breaks and at the end of the shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state	Liquid
Odour characteristics	Organic solvent
Colour	White
Density (g/ml)	1,018 ± 0,005
Solubility in water (g/100mL) @ 25°C	Miscible in / with water
Flammability	Combustible
Flash point (°C)	65 (Pensky Martins closed cup)
Flammable limits-LEL	Not determined
Vapour pressure (mPa) at 25°C	Not determined
Decomposition temperature (°C)	Not determined
Boiling point range(°C)	> 154 (solvent component)
Melting point (°C)	Not applicable - liquid
pH (at 20 ± °C)	3 -5
Auto-ignition temperature (°C)	Not determined
Particle characteristics	Not applicable - liquid
Octanol/water partition coefficient as K_{ow} at pH7 and 25°C:	Not determined

10. STABILITY AND REACTIVITY

Reactivity

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Could decompose at elevated temperatures.

Chemical Stability

Hazardous polymerization will not occur. Stable under normal ambient conditions of use, storage and transport.

Possibility of Hazardous Reactions

None known under conditions of normal use.

Conditions to Avoid

Avoid extreme temperatures (>50°C), storage without ventilation or exposure to open flames/heat/electric or welding sparks. Avoid electrostatic discharge and moisture conditions during storage.

Incompatible Materials

Incompatible with strong acids and strong oxidizers (e.g. chlorates, nitrates, peroxides, permanganates, perchlorates, chlorine, bromine, fluorine, etc.). Moisture may cause hydrolysis/ decomposition.

Hazardous Decomposition Products

Does not decompose when used for intended uses.



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Decomposes on heating. Under burning conditions, this product may form toxic and irritating fumes including, nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen chloride and cyanides.

11. TOXOLOGICAL INFORMATION

Information on likely routes of exposure

The product may be absorbed into the body by inhalation of vapour or spray and/or by ingestion.
The product may come into contact with the skin or eyes.

Information on toxicological effects

Acute toxicity:

No experimental toxicological data are available for the product. The classification is based on the data of the ingredients/components or calculation.

SUMI ALPHA 200 EW is expected to have low acute toxicity following dermal exposure and moderate to low acute toxicity following inhalation exposure.

The product causes serious eye irritation, mild skin irritation and may cause allergic skin reactions.

Assessment of acute toxicity:

Product/ingredient Name	Dose Acute -	Species	Test Result
SUMI ALPHA 200 EW	308 mg/kg	Rat	ATE _(MIX) Oral
SUI ALPHA 200 EW	>5 000 mg/kg	Rat	ATE _(MIX) Dermal
SUMI ALPHA 200 EW	2.3 mg/L	Rat	ATE _(MIX) Inhalation (Dust/Mist)

Irritation – Dermal/Skin and Eyes:

Assessment of irritation effects (skin/eyes):

Based on available data (Rabbits) and the testing of the components, the classification criteria for mild skin irritation and serious eye irritation, are met.

Skin Corrosion/Serious Eye Damage:

Assessment of serious damage to skin and eyes:

Based on available data (Rabbits) and the testing of the components, the classification criteria for skin corrosion/serious eye damage are not met.

Respiratory/Skin Sensitization:

Assessment of sensitization:

Based on available data, the classification criteria for skin sensitization are met.

Germ cell mutagenicity:

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met.



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Reproductive toxicity and Developmental toxicity:

Assessment of reproduction toxicity:

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure):

Assessment of STOT (single):

Based on available data and the testing of components in the product, the classification criteria are met (nervous system).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure):

Assessment of repeated dose toxicity:

Based on available data and the testing of components in the product, the classification criteria are met (nervous system).

Aspiration hazard:

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is very toxic to aquatic organisms with long lasting effects.

The product will not enter the environment under normal use if used as indicated on the label. Care should however be taken to avoid any additional release, for example through inappropriate disposal.

No eco-toxicological data is available for the formulated product. This ecological assessment is based on data available for the active ingredient of the product.

Ingredient	Species and Genus	Exposure (hours/days)	Result in fresh water	Data Source
Esfenvalerate	Crustacea (Daphnia magna)	48h	Acute EC ₅₀ : 0.0001mg/L	Pesticide Database
Esfenvalerate	Fish (Rainbow Trout)	96h	Acute LC ₅₀ : 0.0003mg/L	ETOXNET
Esfenvalerate	Algae	24-48h	Acute E _r C ₅₀ : 0.01mg/L	SDS – Sumitomo Chemical Company, Ltd.

Environmental Effect	Environmental Effect Applicable to Ingredient	Description
Persistence and Degradability:	Esfenvalerate	Under field conditions, Esfenvalerate is moderately persistent with a half-life ranging from about 15 days to three months depending on soil type.
Bioaccumulative Potential:	Esfenvalerate	The overall bioaccumulation hazard rating for Esfenvalerate is moderate - because there may be a potential for accumulation to occur in some aquatic organisms. Bioaccumulation factors in rainbow trout are about 400 times the background (ambient water concentration of the pesticide) levels.
Mobility in Soil:	Esfenvalerate	Esfenvalerate and its breakdown products are relatively immobile in soil and thus pose little risk to groundwater. The product's ability to bind to soil

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increases with increasing organic matter. It is very insoluble in water

Other Adverse Effects: Esfenvalerate Esfenvalerate is highly toxic to bees.

13. DISPOSAL CONSIDERATIONS





Dispose in accordance with all local regulations. Do not contaminate water sources food, or feed by storage of the product or disposal of used containers. The product or empty containers must not be disposed of as part of general waste.

General container handling: Non-refillable container. Do not reuse for any purposes or refill the container. Triple rinse container (or equivalent) promptly after emptying.

Empty containers: Offer for recycling, if available. Recondition if appropriate or puncture and dispose of in a hazardous waste landfill, or by other procedures approved by the local authorities.

Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

	Land Transport (ADR/RID)	Inland Waterways (AND/ADNR)	See Transport (IMDG)	Air Transport (ICAO-TI/IATA-DGR)
UN Number	3082	3082	3082	3082
UN Proper Shipping Name	Environmentally Hazardous Substance, Liquid, Pyrethroid Pesticide N.O.S	Environmentally Hazardous Substance, Liquid, Pyrethroid Pesticide, N.O.S	Environmentally Hazardous Substance, Liquid, Pyrethroid Pesticide, N.O.S	Environmentally Hazardous Substance, Liquid, Pyrethroid Pesticide, N.O.S
Transport Hazard Class	9	9	9 (Marine Pollutant)	9
Transport Hazard Class Pictogram				
Transport Subsidiary Class	None	None	None	None
Packaging Group	III	III	III	III
Environmental Hazard	YES	YES	Marine Pollutant	YES

15. REGULATORY INFORMATION

Symbol
N dangerous to the environment. Xi (Irritant)



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R-Phrase Number	R Phrase
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R36/38	Irritating to eyes and skin.
R20/22	Harmful by inhalation and if swallowed.
R50/53	Very toxic to aquatic organisms and may cause long-term effects.

Relevant regulatory information regarding authorization, Safety Data Sheets, Occupational Exposure Limits, Hazardous Substances, Dangerous Goods Transport and Waste:

South Africa: Occupational Health and Safety Act 1993. Regulations for Hazardous Chemical Agents - 2021. Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Hazardous Substances Act, 1973 (Act No.15 of 1973). Regulations for Hazardous Chemical Agents – 2021. SANS11014:2010. Safety Data Sheet for Chemical Products – Content and Order of Sections. SANS10206: 2020. The Handling, Storage and Disposal of Pesticides. National Road Traffic Act, 1996 (Act No. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: waste Act 59 of 2008.

Zambia: The Pesticides and Toxic Substances Regulations. Statutory Instrument 20 of 1994 (Act No. 13 of 1994). Environmental Management (Licensing) Regulations, Statutory Instrument No. 112 of 2013 (“S.I 112 of 2013”). ZS 708 – Globally Harmonized System of Classification and Labelling of Chemicals. Environmental Management Act (EMA) of 2011.

Kenya: The Occupational Safety and Health Act, 2007 (Act No. 15 of 2007). The Factories and Other places of Work Act (CAP.514).

Angola: Executive Decree No.128/06 of November 23, general regulations of safety and health signals at work. 20041123.

Namibia: Labour Act 11 of 2007. Regulations relating to the Health and Safety of Employees at Work. Regulations relating to the Health and Safety of Employees at Work Government Notice 156 of 1997.

Botswana: Pesticides and Toxic Substances Regulations. 1994 (2006). Agrochemicals Regulations (under Section 31) (8th August, 2003). Environmental and Pollution Control Act. 1990. Environmental Management (Licensing) Regulations. (S.I. No 112 of 2013). Statutory Instrument 20 of 1994 Act No. 13 of 1994.

16. OTHER INFORMATION

‘SUMI ALPHA’ is a registered trademark of Sumitomo Chemical Co., Japan.

The information on this sheet is not a specification, it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product.

It is not applicable to unusual or non-standard uses of the product nor where instruction or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors or omissions or the consequence thereof.

Key to Abbreviations

AND	European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
COD	Chemical Oxygen Demand
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association



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ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
Log _{Pow}	Logarithm of the octanol/water partition coefficient
LD ₅₀	Lethal Dose 50
LC ₅₀	Lethal Concentration 50
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
UN	United Nations

Issued: November 2021