

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



GAMMA-CYHALOTHRIN TECHNICAL

Version	Revision Date:	SDS Number:	Date of last issue: -
3.0	07.09.2022	40002146	Date of first issue: 07.09.2022

SECTION 2: Hazards identification




2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 3	H301: Toxic if swallowed.
Acute toxicity, Category 1	H330: Fatal if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 1, Nervous system	H372: Causes damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:	  
Signal Word	:	Danger
Hazard Statements	:	H301 Toxic if swallowed. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
Precautionary Statements	:	Prevention: P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing.

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Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a
POISON CENTER/ doctor. Rinse mouth.
P304 + P340 + P310 IF INHALED: Remove person to fresh
air and keep comfortable for breathing. Immediately call a
POISON CENTER/ doctor.
P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container
tightly closed.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : (S)-A-CYAN-3-PHENOXYBENZYL (1R,3R)-3-[(Z)-2-
CHLORO-3,3,3-TRIFLUOROPROPENYL]-2,2-
DIMETHYLCYCLOPROPANECARBOXYLATE

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
GAMMA-CYHALOTHRIN	76703-62-3	>= 90 - <= 100

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

If inhaled : Call a physician or poison control center immediately.
If unconscious, place in recovery position and seek medical
advice.

In case of skin contact : Take victim immediately to hospital.
If on skin, rinse well with water.
If on clothes, remove clothes.

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- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Exposure to skin may result in mild symptoms include itching, hives or rash, and skin redness. More severe symptoms include sneezing, itchy watery eyes, and difficulty breathing. Exposure may result in loss of coordination and tremors.
- Risks : Toxic if swallowed.
Harmful in contact with skin.
May cause an allergic skin reaction.
Fatal if inhaled.
Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO_x)
Fluorinated compounds
Chlorinated compounds
Carbon oxides
Hydrogen chloride
Hydrogen fluoride

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5.3 Advice for firefighters

- Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.
- Specific extinguishing methods : Use a water spray to cool fully closed containers. Remove undamaged containers from fire area if it is safe to do so.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Standard procedure for chemical fires.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Never return spills in original containers for re-use. Pick up and transfer to properly labeled containers without creating dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use.

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Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : PREVENT GENERATION OF DUST. Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

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Material	:	Protective gloves
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Filter type	:	Particulates type (P)
Protective measures	:	Plan first aid action before beginning work with this product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	solid
Color	:	off-white
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	4.77 Concentration: 10 g/l
Melting point/range	:	55.6 °C
Boiling point/boiling range	:	Decomposition: yes
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available

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Solubility(ies)	
Water solubility	: 0.0021 mg/l (20 °C)
Solubility in other solvents	: > 500 g/l (19 °C) Solvent: ethyl acetate
	: 30.7 g/l (19 °C) Solvent: Heptane
Partition coefficient: n-octanol/water	: log Pow: 5.2 (25 °C)
Autoignition temperature	: No data available
Decomposition temperature	: 250 °C Heating can release hazardous gases.
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing

9.2 Other information

Surface tension	: Not applicable
Molecular weight	: 449.85 g/mol
Self-ignition	: 398 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No decomposition if stored and applied as directed.
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10.4 Conditions to avoid

Conditions to avoid	: Avoid extreme temperatures. Avoid dust formation. Heat, flames and sparks.
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10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers.

10.6 Hazardous decomposition products

To avoid thermal decomposition, do not overheat.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Toxic if swallowed.
Harmful in contact with skin.
Fatal if inhaled.

Product:

Acute oral toxicity	: Acute toxicity estimate: 56.12 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 0.0286 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: 1,684 mg/kg Method: Calculation method

Components:

GAMMA-CYHALOTHRIN:

Acute oral toxicity	: LD50 (Rat, female): 55 mg/kg Method: OECD Test Guideline 401
	LD50 (Rat, male): > 50 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat, female): 0.028 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rat, female): 1,650 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : Not expected to be irritating to skin.

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Components:

GAMMA-CYHALOTHRIN:

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 404
Result	:	slight or no skin irritation.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.
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Components:

GAMMA-CYHALOTHRIN:

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
Result	:	Slight or no eye irritation

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks	:	Causes sensitization.
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Components:

GAMMA-CYHALOTHRIN:

Assessment	:	May cause sensitization by skin contact.
Method	:	OECD Test Guideline 406
Result	:	May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.
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Carcinogenicity

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects., Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT-single exposure

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Components:

GAMMA-CYHALOTHRIN:

Target Organs : Nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Repeated dose toxicity

Components:

GAMMA-CYHALOTHRIN:

LOAEL : 6 mg/kg
Method : OECD Test Guideline 408
Target Organs : Nervous system

Aspiration toxicity

Not classified based on available information.

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Components:

GAMMA-CYHALOTHRIN:

The substance does not have properties associated with aspiration hazard potential.

Neurological effects

Product:

Remarks : Symptoms include tremors, incoordination, hyperactivity and paralysis

Components:

GAMMA-CYHALOTHRIN:

Remarks : Symptoms include tremors, incoordination, hyperactivity and paralysis

Further information

Product:

Remarks : No data available

Components:

GAMMA-CYHALOTHRIN:

Remarks : On contact, the active ingredient can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

SECTION 12: Ecological information

12.1 Toxicity

Components:

GAMMA-CYHALOTHRIN:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.07 µg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 0.1 µg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (algae): > 2.85 mg/l
plants Exposure time: 72 h

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		NOEC (algae): 0.134 mg/l Exposure time: 72 h
		IC50 (Selenastrum capricornutum (green algae)): > 2.85 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	10,000
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.035 µg/l Exposure time: 21 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.0022 µg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	10,000
Toxicity to soil dwelling organisms	:	LC50: > 1300 mg/kg dry weight (d.w.) Exposure time: 14 d Species: Eisenia fetida (earthworms)
		NOEC: 0.25 mg/kg, > 1300 mg/kg dry weight (d.w.) Exposure time: 56 d End point: reproduction Species: Eisenia fetida (earthworms)
Toxicity to terrestrial organisms	:	LD50: > 2,000 mg/kg Species: Colinus virginianus (Bobwhite quail)
		LD50: 0.005 µg/bee Exposure time: 24 h End point: Acute contact toxicity Species: Apis mellifera (bees)
		LD50: 4.2 µg/bee Exposure time: 24 h End point: Acute oral toxicity Species: Apis mellifera (bees)

12.2 Persistence and degradability

Components:

GAMMA-CYHALOTHRIN:

Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 21 % Exposure time: 28 d
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12.3 Bioaccumulative potential

Components:

GAMMA-CYHALOTHRIN:

Bioaccumulation : Remarks: Can accumulate in aquatic organisms.

Partition coefficient: n-octanol/water : log Pow: 5.2 (25 °C)

12.4 Mobility in soil

Components:

GAMMA-CYHALOTHRIN:

Distribution among environmental compartments : Koc: 34133 - 92692 ml/g
Kd: 239 - 826 ml/g
Remarks: immobile

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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SECTION 14: Transport information

14.1 UN number

ADN	:	UN 3349
ADR	:	UN 3349
RID	:	UN 3349
IMDG	:	UN 3349
IATA	:	UN 3349

14.2 UN proper shipping name

ADN	:	PYRETHROID PESTICIDE, SOLID, TOXIC (Gamma-cyhalothrin)
ADR	:	PYRETHROID PESTICIDE, SOLID, TOXIC (Gamma-cyhalothrin)
RID	:	PYRETHROID PESTICIDE, SOLID, TOXIC (Gamma-cyhalothrin)
IMDG	:	PYRETHROID PESTICIDE, SOLID, TOXIC (Gamma-cyhalothrin)
IATA	:	Pyrethroid pesticide, solid, toxic (Gamma-cyhalothrin)

14.3 Transport hazard class(es)

ADN	:	6.1
ADR	:	6.1
RID	:	6.1
IMDG	:	6.1
IATA	:	6.1

14.4 Packing group

ADN		
Packing group	:	III
Classification Code	:	T7
Hazard Identification Number	:	60
Labels	:	6.1
ADR		
Packing group	:	III
Classification Code	:	T7
Hazard Identification Number	:	60
Labels	:	6.1

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Tunnel restriction code : (E)

RID

Packing group : III
Classification Code : T7
Hazard Identification Number : 60
Labels : 6.1

IMDG

Packing group : III
Labels : 6.1
EmS Code : F-A, S-A

IATA (Cargo)

Packing instruction (cargo aircraft) : 677
Packing instruction (LQ) : Y645
Packing group : III
Labels : Toxic

IATA (Passenger)

Packing instruction (passenger aircraft) : 670
Packing instruction (LQ) : Y645
Packing group : III
Labels : Toxic

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) H1 ACUTE TOXIC

E1 ENVIRONMENTAL HAZARDS

E1

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

H1 ACUTE TOXIC

E1 ENVIRONMENTAL HAZARDS

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

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on the Canadian DSL nor NDSL.

GAMMA-CYHALOTHRIN

ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet;

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



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SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Other information :

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