

SAFETY DATA SHEET

According to EC-directive 93/112/EC

Pending

BIOALLETHRIN TG**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product label name Bioallethrin
Supplier SUMITOMO CHEMICAL (UK) PLC
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2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives

Information on hazardous ingredients

Chemical description Bioallethrin**Composition / information on ingredients**

Number	% w/w	CAS-number	Chemical name
1	>93	584-79-2	(RS)-3-Allyl-2-methyl-4-oxocyclopent-2-enyl (1R).trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropane carboxylate

Number	EC-number	Annex-1 number	Symbol(s)	Risk-phrase(s)
1	209-542-4	006-025-00-3	Xn N	R20/22 R50/53

3. HAZARDS IDENTIFICATION

Harmful by inhalation and if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects May cause a transient itching and/or burning sensation in exposed human skin. Synthetic pyrethroids can produce paresthesias. Typically, symptoms begin several hours after cutaneous exposure, peaks within about 12 hours and resolves within about 24 hours. Extraordinary absorbed doses may rarely cause tremor, hyperexcitability, uncoordinated movements, salivation, nausea or vomiting and diarrhoea.

First aid

General In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation Move to fresh air. If symptoms persist, seek medical advice.

Skin Remove contaminated clothing. Wash immediately with soap and water.

Eye Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Ingestion Rinse mouth, give water to drink. Never induce vomiting in unconscious or confused persons. Seek medical advice. Symptomatic treatment is advised.

Advice to physician

5. FIRE-FIGHTING MEASURES

Extinguishing media dry chemical powder, Carbon dioxide.
Large fires: waterspray or foam

Unsuitable extinguishing media Water with full waterjet.

Special exposure hazards none known.

Hazardous decomposition/combustion products May emit toxic and irritating fumes under fire conditions.

Protective equipment Wear self contained breathing apparatus. Wear suitable protective clothing. See also Section 8.

Other information Keep away from heat.
Cool closed containers with water.
Water used to extinguish a fire should not be allowed to enter the drainage system or water courses.

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BIOALLETHRIN TG**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions	For personal protection see Section 8.
Environmental precautions	Do not allow to escape into sewage system or water courses.
Methods for cleaning up	In case of spill (liquid), soak it up immediately with suitable absorbent, such as sawdust or granular absorbent clay. Sweep up and put it into a container for disposal (See Section 13). Rinse remnant with plenty of water. Do not allow to enter drains or water courses.

7. HANDLING AND STORAGE

Handling	Keep away from food, drink and animal feedingstuffs. Avoid contact with skin and eyes. For personal protection see Section 8.
Fire and explosion prevention	No specific recommendations.
Storage requirements	Store in a dry well ventilated place away from sources of heat and direct sunlight. Store at ambient temperatures.
Other information	Keep only in the original container. To maintain quality: Store in polyethylene.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Provide adequate ventilation.
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Name

Bioallethrin	3.8 mg/m ³ (TWA)
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Personal protection

Respiratory	at least breathing mask (Type A2/P3).
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Hand	Wear protective gloves.
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Eye	Wear safety goggles.
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Skin and body	Wear suitable protective clothing.
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Other information	Launder clothes before reuse.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	viscous liquid
Colour	yellow / brown
Odour	faint characteristic
Boiling point/range	160 °C
Melting point/range	not applicable
Flash point	94 °C
Flammability	combustible material
Autoignition temperature	not determined
Explosive properties	not available
Explosion limits	not determined
Oxidizing properties	not relevant
Vapour pressure	3.3 at 10-4 mm Hg (25 °C)
Density	1.0 - 1.02 g/ml (20 °C)
Bulk density	not applicable
Solubility in water	Insoluble
Solubility in other solvents	Soluble (in most organic solvents)
pH value	not applicable
Partition coefficient n-octanol/water	Log Pow = 4.70
Relative vapour density (air=1)	not determined
Viscosity	not determined

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Avoid direct sunlight.
Materials to avoid	none known.
Hazardous decomposition products	Emits toxic fumes under fire conditions (See also Section 5).

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BIOALLETHRIN TG**11. TOXICOLOGICAL INFORMATION**

Name	Bioallethrin
Acute toxicity	
Oral LD50	rat: 709 - 1042 mg/kg
Dermal LD50	rabbit : > 3000 mg/kg
Inhalation LC50	rat (4 hours) : 2,51 mg/l
Irritation	
Skin	Non-irritating (rabbit)
Eye	Non-irritating (rabbit)

12. ECOLOGICAL INFORMATION

Name	Bioallethrin
Ecotoxicity	
fish	Acute toxicity, 96h-LC50 (Oncorhynchus kisutch): 0.0094 mg/l Acute toxicity, 96h-LC50 (Salmo gairdneri): 0.0097 mg/l Acute toxicity, 96h-LC50 (Ictalurus panctatus): 0.027 mg/l
daphnia	Acute toxicity, 48h-EC50 (Daphnia magna) : 0.0356 mg/l

13. DISPOSAL CONSIDERATIONS

Product	According to local regulations. For further advice contact manufacturer.
Contaminated packaging	According to local regulations.

14. TRANSPORT INFORMATION*Land transport (ADR/ RID)*

ADR class	9	ADR item number	11c
RID class	9	RID item number	11c
Hazard Identification No.	90	Substance Identification No.	3082
TREM-Card	CEFIC TEC(R)- 90G01	UN number	3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bioallethrin)		

Sea transport (IMDG-code/ IMO)

IMO/IMDG code		Class	9
Packing group	III	UN number	3082
EMS	none	MFAG	none
Marine pollutant	yes		
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bioallethrin)		

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR		UN number	3082
Class	9	Packing group	III
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bioallethrin)		

15. REGULATORY INFORMATION

Chemical description	Bioallethrin
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Labelling according to EC directives

EC-number	See section 2
Classification based on	Annex-1 to directive 67/548/EEC



HARMFUL (Xn)



DANGEROUS FOR THE ENVIRONMENT (N)

Symbol(s)

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BIOALLETHRIN TG

R(isk) phrase(s)	R20/22: Harmful by inhalation and if swallowed R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S(afety) phrase(s)	S36/37: Wear suitable protective clothing and gloves S46: If swallowed, seek medical advice immediately and show this container or label S60: This material and its container must be disposed of as hazardous waste S61: Avoid release to the environment. Refer to special instructions/Safety data sheets

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

History

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