**SAFETY DATA SHEET** According to EC-directive 93/112/EC

# **BIORESMETHRIN TG**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product label name Bioresmethrin

SUMITOMO CHEMICAL (UK) PLC Supplier

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Akzo Nobel Chemicals-Gillingham-GB

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** Bioresmethrin Composition / information on ingredients

% w/w Number CAS-number Chemical name

Cyclopropanecarboxylic acid, 2,2 dimethyl-3-(2-methyl-1-propenyl), 28434-01-7

(5-(phenylmethyl)-3-furanyl methyl ester, (1R-trans) Number **EC-number** Annex-1 number Symbol(s) Risk-phrase(s) 249-014-0 613-120-00-9 R50/53

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

May cause a transient itching and/or burning sensation in exposed human skin. Symptoms and effects

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

In case of accident or if you feel unwell, seek medical advice immediately (show the General

label where possible).

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

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

Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to Eve

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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6. ACCIDENTAL RELEASE MEASURES

For personal protection see Section 8. **Personal precautions** 

**Environmental precautions** Do not allow to escape into sewage system or water courses.

In case of spill (liquid), soak it up immediately with suitable absorbent, such as sawdust Methods for cleaning up

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

Keep away from food, drink and animal feedingstuffs. Avoid contact with skin and eyes. Handling

For personal protection see Section 8.

Fire and explosion prevention No specific recommendations.

Store in a dry well ventilated place away from sources of heat and direct sunlight. Storage requirements

Store at ambient temperatures.

Protect from frost.

Other information To maintain quality: Store in aluminium.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls** Provide adequate ventilation.

No exposure limits have been established for this material. **Exposure limits** 

**Personal protection** 

Respiratory at least breathing mask (Type A2/P3).

Hand Wear protective gloves. Eve Wear safety goggles.

Skin and body Wear suitable protective clothing. Other information Launder clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

viscous liquid to whitish solid **Appearance** 

Colour vellow / brown Odour faint characteristic

174 °C Boiling point/range 32 °C Melting point/range 92 °C Flash point

**Flammability** not determined **Autoignition temperature** not determined not available **Explosive properties** not determined **Explosion limits** Oxidizing properties not relevant not determined Vapour pressure 1.04-1.06 g/ml (20 °C) **Density** 

Solubility in water Insoluble

Solubility in other solvents Soluble (in most organic solvents)

pH value not applicable **Partition coefficient** Log Pow = 4.7

n-octanol/water

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 Halogens, strong acids or oxidants.

**Hazardous decomposition** Emits toxic fumes under fire conditions (See also Section 5).

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## **BIORESMETHRIN TG**

11. TOXICOLOGICAL INFORMATION

Bioresmethrin

**Acute toxicity** 

Oral LD50 rat (male): 5396 mg/kg rabbit: > 2000 mg/kg **Dermal LD50** rat (4 hours ): >5.28 mg/l **Inhalation LC50** 

Irritation

Name

Skin Non-irritating (rabbit). Eve Non-irritating (rabbit). Sensitization Not sensitizing (quinea pig). Other toxicological Not teratogenic. not carcinogenic.

NOEL (No Observable Effect Level) = 3-4 mg/kg/day information

12. ECOLOGICAL INFORMATION

Bioresmethrin Name

**Ecotoxicity** 

fish Acute toxicity, 96h-LC50: 0.0062 mg/l Acute toxicity, 48h-EC50: 0.0008 mg/l daphnia

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)

9 **ADR class** ADR item number 12c **RID class** 9 RID item number 12c Hazard Identification No. 90 Substance Identification No. 3077 CEFIC TEC(R)- 90G02 **TREM-Card UN** number 3077 Environmentally hazardous substance, solid, n.o.s. (Bioresmethrin) **Proper Shipping Name** 

Sea transport (IMDG-code/ IMO)

IMO/IMDG code Class Ш **UN** number 3077 Packing group **EMS** none **MFAG** none

Marine pollutant ves

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s. (Bioresmethrin)

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR 3077 **UN** number Ш Class **Packing group** 

Environmentally hazardous substance, solid, n.o.s. (Bioresmethrin) **Proper Shipping Name** 

**15. REGULATORY INFORMATION** 

**Chemical description** Bioresmethrin

Labelling according to EC directives

**EC-number** See section 2

Classification based on Annex-1 to directive 67/548/EEC

DANGEROUS FOR THE Symbol(s) **ENVIRONMENT (N)** 

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# **BIORESMETHRIN TG**

R(isk) phrase(s) R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

S(afety) phrase(s) 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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Composed by Dr. D.J. Buckland Dr. R. Martin

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