

**SAFETY DATA SHEET**

According to EC-directive 93/112/EC

Pending

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

**Product label name** Deltamethrin  
**Supplier** SUMITOMO CHEMICAL (UK) PLC  
Horatio House  
77-85 Fulham Palace Rd  
London W6 8JA  
United Kingdom  
Tel.: +44 208 600 7700  
**Emergency telephone** + 31 570679211 (Fax. + 31 570679801)  
Akzo Nobel Chemicals-Deventer-NL  
  
+ 44-1634280888  
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** Deltamethrin**Composition / information on ingredients**

Number	% w/w	CAS-number	Chemical name
1	> 98%	52918-63-5	(S)-alpha-Cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane carboxylate

Number	EC-number	Annex-1 number	Symbol(s)	Risk-phrase(s)
1	258-256-6		T N	R20 R25 R50/53

**3. HAZARDS IDENTIFICATION**

Harmful by inhalation.

Toxic if swallowed.

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

**4. FIRST AID MEASURES**

**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**

**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. Induce vomiting. Never induce vomiting in unconscious or confused persons. Always seek medical advice.

**Advice to physician** Symptomatic treatment is advised.  
Consult National Poison Center.

**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.

## DELTAMETHRIN 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	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.
Exposure limits	No exposure limits have been established for this material.
Personal protection	
Respiratory	respirator with Filter P3.
Hand	Wear protective gloves.
Eye	Wear safety goggles.
Skin and body	Wear suitable protective clothing.
Other information	Laundry clothes before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	crystalline solid
Colour	colourless
Odour	odourless
Boiling point/range	not applicable
Melting point/range	98-101 °C
Flash point	not determined
Flammability	not determined
Autoignition temperature	not determined
Explosive properties	kST = 126 bar.m/s (st 1)
Explosion limits	not determined
Oxidizing properties	not relevant
Vapour pressure	1.24 * 10 <sup>-8</sup> Pa (25 °C)
Density	not applicable
Bulk density	500 kg/m <sup>3</sup>
Solubility in water	Insoluble
Solubility in other solvents	Soluble ( in most organic solvents)
pH value	5.9 (at 1% w/v water)
Partition coefficient n-octanol/water	Log Pow = 4,6
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).

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

## DELTAMETHRIN TG

### 11. TOXICOLOGICAL INFORMATION

Name	Deltamethrin
Acute toxicity	
Oral LD50	rat: 66.7 - 128.5 mg/kg
Dermal LD50	rabbit: > 2000 mg/kg rat: 2940 mg/kg
Inhalation LC50	rat (4 hours): 2.2 mg/l
Irritation	
Skin	Non-irritating (rabbit).
Eye	Slightly irritating to eyes (rabbit).
Sensitization	Not sensitizing (guinea pig)
Genotoxicity	Not mutagenic.
Other toxicological information	Not teratogenic, not carcinogenic. NOEL (No Observable Effect Level) = 1 mg/kg/day.

### 12. ECOLOGICAL INFORMATION

Name	Deltamethrin
Ecotoxicity	
fish	Acute toxicity, 96h-LC50: 0.001 - 0.01 mg/l
daphnia	Acute toxicity, 48h-EC50 ( Daphnia magna ): 0.0035 mg/l
algae	Acute toxicity, 72h-IC50: >9.1 mg/l
Fate	

### 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	6.1	ADR item number	73c
RID class	6.1	RID item number	73c
Hazard Identification No.	60	Substance Identification No.	3349
TREM-Card	CEFIC TEC(R)- 61G41c	UN number	3349
Proper Shipping Name	(Deltamethrin)		

#### Sea transport (IMDG-code/ IMO)

IMO/IMDG code		Class	6.1
Packing group	III	UN number	3349
EMS	6.1-02	MFAG	510
Marine pollutant	yes		
Proper Shipping Name	Pyrethroid pesticide, solid, toxic (Deltamethrin)		

#### Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR		UN number	3349
Class	6.1	Packing group	III
Proper Shipping Name	Pyrethroid pesticide, solid, toxic (Deltamethrin)		

### 15. REGULATORY INFORMATION

Chemical description	Deltamethrin
----------------------	--------------

Labelling according to EC directives

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

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

**DELTAMETHRIN TG**



TOXIC (T)



DANGEROUS FOR THE ENVIRONMENT (N)

**Symbol(s)**

**R(isk) phrase(s)**

R20: Harmful by inhalation  
R25: Toxic if swallowed  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**S(afety) phrase(s)**

S28: After contact with skin, wash immediately with plenty of soap and water  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection  
S38: In case of insufficient ventilation, wear suitable respiratory equipment  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
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**

**Other information**

This material is used for preparing insecticidal products for use by professionals and householders.

**Date of printing/  
pdf file generated**

20-08-2001

**Revision**

0.00

**Composed by**

Dr. D.J. Buckland      Dr. R. Martin