### MATERIAL SAFETY DATA SHEET KLARTAN

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

Product name Chemical name of active ingredient(s)	: KLARTAN : Tau-fluvalinate
Code no.	: R-10834.G
Supplier	: Makhteshim Agan (UK) Limited Unit 16, Thatcham Business Village Colthrop Way Thatcham Berkshire RG19 4LW Tel No: 01635 860555 Fax No: 01635 861555
Emergency telephone number	: National Chemical Emergency Centre <u>Tel</u> : 01865 407333

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous	: Preparation	n			
Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Tau-fluvalinate	102851-06-9	24		Xn, N	R22-38-50/53
1,2-ethanediol	000107-21-1	1-10	203-473-3	Xn	R22

\* Occupational Exposure Limit(s), if available, are listed in section 8

### 3. HAZARDS IDENTIFICATION

Human health hazards	: Not hazardous.
Environmental hazards	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST-AID MEASURES

Effects and symptoms
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First-aid measures	
Inhalation	: Remove victim to fresh air.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label; administer active carbon in a large amount of water. Never give anything by mouth to an unconscious person. Do not induce vomiting.
Skin contact	: Wash off with plenty of water and soap. Remove contaminated clothing.
Eye contact	: Wash out with plenty of water. Consult an eye specialist.
Notes to a physician	: There is no specific antidote. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media Suitable

: Dry chemical, water spray, foam, carbon dioxide.

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Not suitable Special fire-fighting procedures	<ul> <li>Direct water jets.</li> <li>Dike fire control water for later disposal. Prevent all discharge into the environment.</li> </ul>
Unusual fire/explosion hazards	: Combustion products are toxic and/or irritant. Measures must be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.
Hazardous thermal (de)composition products	: Toxic and/or irritating gas.
Protection of fire-fighters	: Self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Wear suitable protective clothing, nitrile rubber gloves, safety glasses or face shield.
Environmental precautions Methods for cleaning up	<ul> <li>Do not discharge into drains or the environment.</li> <li>Collect and contain as much free liquid as possible. Absorb remainder in sand or other inert material. Place into a clean container and cover container loosely for later disposal.</li> </ul>

### 7. HANDLING AND STORAGE

Handling	: Avoid contact with skin and eyes. Do not breathe fumes. Wear suitable protective clothing, nitrile rubber gloves, safety glasses or face shield.
Storage	: Keep only in the original container at a temperature not exceeding 40°C. Keep away from food, drink and animal feedingstuffs.
Packaging materials Suitable	: Coextruded polyethylene bottles; Drums with polyethylene liner.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits	
<u>Common name</u>	: 1,2-ethanediol
TLV (USA)	: 100 mg/m <sup>3</sup> ; 39.4 ppm.
Personal protective	
<u>equipment</u>	
Respiratory system	: In case of insufficient ventilation, wear suitable respiratory equipment.
Skin and body	: Wear suitable protective clothing and boots.
Hands	: nitrile rubber gloves.
Eyes	: Safety goggles or face shield.
Other information	: Wash hands thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid.
Colour	: White - yellowish.
Odour	: Characteristic.

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Density	: 1.07 - 1.11 g/cm³ (20ºC).
Solubility in water	: Miscible.
pH	: 3 - 7 (1% soluzione).
Flash point	: > 100°C (Closed cup).
Flammability	: Not flammable (Combustible).
Explosion properties	: Not explosive.

### 10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Conditions to avoid	: Avoid temperatures above 40°C.
Materials to avoid	: strong acids, strong bases.
Hazardous reactions	: Not known.
Hazardous decomposition	: Emits toxic fumes.
products	

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity - Oral	: LD <sub>50</sub> > 2000 mg/kg, rat.	
Acute toxicity - Dermal	: LD <sub>50</sub> > 2000 mg/kg, rat.	
Acute toxicity - Inhalation	: LC <sub>50</sub> > 5.5 mg/l (4 hours) rat - Tau-fluvalinate.	
Skin irritation	: Not irritating (rabbit).	
Eye irritation	: Not irritating (rabbit).	
Sensitization	: Guinea pig maximization test: Non sensitizer	

#### 12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms.

#### Ecotoxicity

: Fish:  $LC_{50} > 0.024$  mg/l, 96 hours (rainbow trout). Algae:  $EC_{50} = >100$  mg/l (72 hours). Daphnia:  $LC_{50} = 0.011$  mg/l (48 hours)

#### 13. DISPOSAL CONSIDERATIONS

<u>Methods of disposal</u> : Disposal according to the local legislation.

#### 14. TRANSPORT INFORMATION

International transport regulations		
UN number	: 3082	
<u>Land - Road/Railway</u>		
Proper shipping name	: Environmentally hazardous substance, liquid, N.O.S. (Tau-fluvalinate 24%).	
ADR/RID Class	:9	
ADR/RID Item number	: 11 (c)	
Packing group	: III	

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<u>Inland waterways</u> Sea	
Proper shipping name	: Environmentally hazardous substance, liquid, N.O.S. (Tau-fluvalinate 24%).
IMDG Class	:9
Packing group	: III
Medical First Aid Guide (MFAG)	: None.
Emergency Schedules (EmS)	: None.
Air	
Proper shipping name	: Environmentally hazardous substance, liquid, N.O.S. (Tau-fluvalinate 24%).
IATA-DGR Class	:9

#### National transport regulations

No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION	
lassification	: This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations.
Hazard symbol(s)	: N
	DANGEROUS FOR THE ENVIRONMENT (N)
Risk phrases	: R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	: S29: Do not empty into drains.
	S57: Use appropriate containment to avoid environmental contamination.

#### OTHER INFORMATION 16.

Recommended use

: Insecticide

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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### <u>HISTORY</u>

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