# **MATERIAL SAFETY DATA SHEET KLARTAN**

## IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **COMPANY/UNDERTAKING**

: KLARTAN **Product name** Chemical name of active : Tau-fluvalinate

ingredient(s)

Code no. : R-10834.G

: Makhteshim Agan (UK) Limited Supplier

Unit 16, Thatcham Business Village Colthrop Way

Thatcham

Berkshire RG19 4LW

Tel No: 01635 860555 Fax No: 01635 861555

: National Chemical Emergency Centre **Emergency telephone** 

Tel: 01865 407333 number

#### **COMPOSITION/INFORMATION ON INGREDIENTS** 2.

: Preparation Substance/preparation Information on hazardous ingredients \*

Common name CAS No. Symbol **R-Phrases** % **EC Number** Tau-fluvalinate 102851-06-9 24 Xn, N R22-38-50/53 R22

1.2-ethanediol 000107-21-1 1-10 203-473-3 Xn

#### 3. HAZARDS IDENTIFICATION

Human health hazards : Not hazardous.

: Toxic to aquatic organisms, may cause long-term adverse effects in the **Environmental hazards** 

aquatic environment.

#### 4. **FIRST-AID MEASURES**

## **Effects and symptoms**

First-aid measures

Inhalation : Remove victim to fresh air.

: If swallowed, seek medical advice immediately and show this container or Ingestion

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.

: Wash out with plenty of water. Consult an eye specialist. Eye contact : There is no specific antidote. Treat symptomatically. Notes to a physician

#### **FIRE-FIGHTING MEASURES** 5.

**Extinguishing media** 

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

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

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Not suitable : Direct water jets.

Special fire-fighting

procedures

: Dike fire control water for later disposal. Prevent all discharge into the

environment.

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

: Do not discharge into drains or the environment.

 $\ensuremath{\mathbf{:}}$  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.

## 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

Common name: 1,2-ethanediolTLV (USA): 100 mg/m³; 39.4 ppm.

Personal protective

equipment

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/cm<sup>3</sup> (20°C).

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 :  $LD_{50} > 2000$  mg/kg, rat. Acute toxicity - Dermal :  $LD_{50} > 2000$  mg/kg, rat.

Acute toxicity - Inhalation :  $LC_{50} > 5.5 \text{ mg/l}$  (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:  $EC_{50} = >100 \text{ mg/l } (72 \text{ hours}).$ Daphnia:  $LC_{50} = 0.011 \text{ mg/l } (48 \text{ hours})$ 

## 13. DISPOSAL CONSIDERATIONS

**Methods of disposal**: Disposal according to the local legislation.

## 14. TRANSPORT INFORMATION

International transport regulations
UN number : 3082

Land - Road/Railway

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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## **Inland waterways**

<u>Sea</u>

Proper shipping name : Environmentally hazardous substance, liquid, N.O.S. (Tau-fluvalinate

24%).

IMDG Class : 9
Packing group : III
Medical First Aid Guide : None.

(MFAG)

Emergency Schedules : None.

(EmS)

<u>Air</u>

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

Classification : 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.

Contains : 240 g/l Tau-fluvalinate.

## 16. OTHER INFORMATION

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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## Conforms to 93/112/EC and ISO 11014-1

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The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code

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