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

Product name : MAVRIK 2F / KLARTAN

Chemical name of active

ingredient(s)

: Tau-fluvalinate

**Code no.** : R-10834.DPD

**Manufacturer**: Makhteshim Chemical Works, Ltd.

P.O.B. 60, Beer Sheva 84100, Israel.

Fax no.: 972-8-6296848-(364)

Emergency telephone : 972-3-6106666

**number** Subscription no.: 36789 (MAKHTESHIM)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation**: Preparation Information on hazardous ingredients \*

 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

#### 3. HAZARDS IDENTIFICATION

**Human health hazards**: Not hazardous.

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

the aquatic environment.

#### 4. FIRST-AID MEASURES

#### **Effects and symptoms**

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.

Not suitable : Direct water jets.

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

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

**Protection of fire-fighters** 

: Toxic and/or irritating gas.

: 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.

: 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.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure** 

Limits

Common name : 1,2-ethanediol : 100 mg/m<sup>3</sup>; 39.4 ppm. TLV (USA)

Personal protective

equipment

: In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory system

Skin and body : Wear suitable protective clothing and boots.

Hands : nitrile rubber gloves.

: Safety goggles or face shield. **Eyes** 

: Wash hands thoroughly after handling. Other information

#### PHYSICAL AND CHEMICAL PROPERTIES 9.

: Liquid. **Physical state** 

: White - yellowish. Colour Odour : Characteristic.

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**Density** : 1.07 - 1.11 g/cm<sup>3</sup> (20°C).

Solubility in water : Miscible.

pH : 5.0 - 6.5 (1% solution).

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> > 5000 mg/kg, rat (male & female).

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

<u>Methods of disposal</u>: 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. (24%

Tau-fluvalinate).

ADR/RID Class : 9
Packing group : |||

**Inland waterways** 

<u>Sea</u>

Proper shipping name : Environmentally hazardous substance, liquid, N.O.S. (24%

Tau-fluvalinate).

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IMDG Class: 9Packing group: IIIEmergency Schedules: None.

(EmS)

<u>Air</u>

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

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 : R50/53: Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment. : S2: Keep out of the reach of children

Safety phrases : S2: Keep out of the reach of children S13: Keep away from food, drink and animal feedingstuffs.

S20/21: When using do not eat, drink or smoke.

S61: Avoid release to the environment. Refer to special instructions/Safety

data sheets.

**Contains** : 240 g/l Tau-fluvalinate.

### 16. OTHER INFORMATION

Recommended use : Insecticide

Text of R-phrases in section 2

R22: Harmful if swallowed R38: Irritating to skin

R50/53: Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment

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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.

#### Text of R-phrases in section 2

R22: Harmful if swallowed

R38: Irritating to skin

R50: Very toxic to aquatic organisms

R53: May cause long-term adverse effects in the aquatic environment

#### **HISTORY**

 Date of printing
 : 03/23/2004

 Date previous issue
 : 01/04/2004

 Date of issue
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 Version
 : 007.00.00

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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