

PRODUCT SAFETY DATA SHEET

SUBSTANCE / PREPARATION NAME

TRICAM

Date of preparation	13/07/2015
Release Date	13/07/2015
MSDS No	FORM_MSDS_R&D_192_00
Renewal Date/No	

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This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

1. SUBSTANCE/PREPARATION AND COMPANY/ DEFINITION OF BUSINESS OWNER:

1.1 Substance/ Presentation Of The Preparation:

Product Name : TRICAM
Product Description : TRALKOXYDIM 250 g/L
Formulation Type : SC (Suspension Concentrate)
Cas No : 87820-88-0
EC No : -
FRAC : A WSSA 1 cyclohexanedioneoxime

1.2 Usage of Substance/Preparation:

Herbicide

1.3 Presentation of the Company:

Manufacturer and Licensee Company:

Company Name : AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.
Adress : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
Telephone : +90 0232 864 13 33
Fax : +90 0232 864 16 79

1.4 Emergency Telephone:

Please call +90 0232 864 13 33 in an Emergency and National Poison Center 114.

2. INFORMATION ABOUT THE CONTENT/COMPOSITION :

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Tralkoxydim	250	87820-88-0	-	Xn	R22	Xn;R22
Others	These are excluded because of not containing hazardous substance.					

- Descriptions about ¹R are given in chapter 16.

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3. IDENTIFICATION OF HAZARDS:



Xn : Harmful

R22 - Harmful if swallowed.

4. First Aid Precautions:

First Aid Precautions: In the poisoning case remove the patient from the sprayed field, If he/she is at closed area, you must immediately send him to fresh air. If it is contacted with eye, flush eye lids slowly with water. If necessary, consult to a doctor with medication.

Antidote: There is not specific antidote. In the case of poisoning, call the international poison center.

5. FIRE CONFLICT PRECAUTIONS

Required Personal Protective Equipment in Aid: Do not breathe fumes of explosion and fire. If possible, use self contained breathing apparatus during fire.

Hazards: Carbon oxides, Nitrogen Oxides (NOx).

Fire Extinguishers: Pressed water, foam, carbon dioxide, extinguishing powder.

Other Information: Remove the product from fire areas, cool containers with water. If possible, use sand or earth after fire fighting water.

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6. ACCIDENTAL RELEASE PRECAUTIONS:

General Information: Use personal protection devices, specified in section 8.

Personal Alerts: Avoid formation of dust, breathing product's smoke or gas. Do not eat, drink or smoke when dealing with spilled product.

The Cleaning Process: Contaminated substances, cleaned according to environment and ground instructions. The remaining amount of waste must not poured to sewage canal.

Additional Precautions: Look at section 7 for safe use. Look at section 8 for personal protective equipment. Look at section 13 for disposal.

7. HANDLING AND STORAGE

Handling : Use personal protective equipments specified in section 8. Do not eat or drink anything during the usage. Avoid contact with skin and eyes and formation of dust and aerosol. Do not breathe it. Use only the rooms with appropriate exhaust ventilation.

Storage : Store in original container in a cool, dry and well-ventilated place.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Precautions: Keep the substance concentration below the allowable limits by providing the appropriate general or regional ventilation.

Personal Protective Equipment:

Eye : Use safety glasses according to EN 166.

Skin : Use protective clothing and suitable gloves. If possible, use 2 layers of clothing. Use CE marked Nitrile rubber gloves (min 0,40 mm thick). Wash contaminated gloves. Dispose of the not cleanable gloves. Chosen gloves has to be accordant with AB 89/686/EEC instructions.

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Respiration: Use P95(US) or P1(EU EN 143 type breathing apparatus. According to higher level of exposure, use OV/AG/P99 (US) or ABEK P2 (EU EN 143) type mask filter. Breathing apparatus only used in short-term works to reduce the risk, for example, in local ventilations. Warning instructions prepared by manufacturers about respiratory protection apparatus must be followed.

Hygiene Precautions: Do not eat, drink or smoke during usage. Wash your hands every time before going to the toilet, eating, drinking and smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Color : Light-brown
Smell : Characteristic
Density : 1,04+ 0,05 g/cm³ (200C)
pH : 6.2+1 1% (200C)

10. STABILITY AND REACTION

Conditions to avoid : Extreme temperatures and direct sunlight.

Substances to avoid : Avoid from strong acids and oxidizing agents.

Hazardous reactions : There is a not hazardous reaction when stored and handled suitable.

11. TOXICOLOGICAL INFORMATION

Tralkoxydim Technical Substance:

Oral Acute oral LD₅₀ for male rats 1258, female rats 934, male mice 1231, female mice 1100, male rabbits >519 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >2000 mg/kg. Mild skin and eye irritant (rabbits). Not a skin sensitiser (guinea pigs).

Inhalation LC₅₀ (4 h) for rats >3.5 mg/l air.

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NOEL (90 d) for rats 20.5 mg/kg diet; (1 y) for dogs 5 mg/kg diet. **NOAEL** (90 d) for rats 250 ppm (20.5 mg/kg daily), for dogs 0.5 mg/kg b.w. daily.

ADI/RfD (EC) 0.005 mg/kg b.w. [2008]; (EPA) cRfD 0.005 mg/kg b.w. [1998].

Other Non-mutagenic in standard tests. Non-teratogenic in rabbits.

Toxicity Class WHO (a.i.) III; EPA (formulation) III ('Achieve') **EC classification** (Xn; R22)

12. ECOLOGICAL INFORMATION

Tralkoxydim Technical Substance:

Birds Acute oral LD₅₀ for mallard ducks >3020, partridges 4430 mg/kg. Dietary LC₅₀ (5 d) for mallard ducks >7400, quail 6237 mg/kg diet.

Fish LC₅₀ (96 h) for mirror carp >8.2, bluegill sunfish >6.1, rainbow trout >7.2 mg/l.

Daphnia EC₅₀ (48 h) >175 mg/l.

Algae EC₅₀ (120 h) for green algae 7.6 mg/l.

Other aquatic spp. EC₅₀ (14 d) for *Lemna gibba* 1.0 mg/l.

Bees LD₅₀ (contact) >0.1 mg/bee; (oral) 0.054 mg/bee.

Worms LC₅₀ (14 d) 87 mg/kg.

13. DISPOSAL INFORMATION

Product : Wastes should not be disposed of with household waste. The remaining amount of waste must not be poured into a sewage canal. Hazardous waste should be disposed of according to control regulations.

Contaminated Packaging : Empty containers should not be used for other products. Completely emptied and shaken containers must be properly disposed. Uncontaminated packaging should be disposed of as hazardous waste.

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14. TRANSPORT INFORMATION

ADR/RID/ADNR : No classification
IMDG : No classification
IATA : No classification



15. REGULATORY INFORMATION

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Hazard Signal and Symbol:



Xn :Harmful

Hazardous Substances Found On The Label

Containing Tralkoxydim

Risk Phrases

Physicochemical:-

Health: R22 - Harmful if swallowed.

Environment:-

Safety Phrases:

S1/2 : Keep away from children and store under lock.

S13 : Keep away from foods, drinks and animal feedstuffs

S46 :If swallowed, seek medical advice immediately and show this container or label

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Important Labeling :

To avoid from risks to man and environment, comply with the instruction of use.

16. OTHER INFORMATIONS

Xn : Harmful

Risk phrases mentioned in Section 2:

R22 : Harmful if swallowed.

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Prepared By : Remzican KARAN

This security information form is additional to manufacturer firm's instructions, however does not replace with instructions. This form contains regulation criterias for preparation of security form preparation. This form is based on safety data forms and regulation about the preparation and distribution of hazardous substances (dated 26/12/2008 and 27092 numbered). Please, the relevant institutions and individuals act according to this regulation.