

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

TOURE

Date of Preparation	21/09/2015
Date of Issue	21/09/2015
MSDS No	FORM_MSDS_R&D_258_00
Renewal Date/No	-

Sayfa No: 1/8

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

1. IDENTIFICATION OF THE MATERIAL AND COMPANY

1.1 Material/Preparation Identification:

Product Name : **TOURE**
Product Content : Oxyfluorfen 240 g/L
Formulation Type : EC (EMULSION CONCANTRATE)
CAS No : 42874-03-3
EINECS : 255-983-0
FRAC : E **WSSA** 14 diphenyl ether

1.2 Usage of the Material/Preparation:

Herbicide

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRI SCIENCES TARIM VE İLAÇÜR. SAN. TİC. LTD. ŞTİ.
Address : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
Telephone : +90 0232 864 13 33
Fax : +900232 864 16 79

1.4. Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33 and/or National Poison Information Centre (UZEM) 114.

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Oxyfluorfen	240	42874-03-3	255-983-0	Xi, Xn, N	R38, R65, R51/53	Xi; R38, Xn; R65, N; R51/53
Cyclohexanone	250	108-94-1	203-631-1	Xn	R10, R20	R10, Xn; R20
Ksilen	>300 g/L	1330-20-7	215-535-7	Xn, Xi	R10, R20/21, R38	R10, Xn R20/21, Xi; R38
Others	Not classified in that it does not contain hazardous chemicals.					

- ¹R explanations are under section 16.

3. HAZARDS IDENTIFICATION:



Xn: Harmful

N: Dangerous For the Environment

- R10 : Flammable.
R20/21 : Harmful, if inhaled and contact with skin.
R38 : Irritating the skin.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 : Harmful: may cause lung damage if swallowed.

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4. FIRST AID MEASURES:

Poisoning Symptoms: Headache, dizziness, weakness, visual impairment, blurred vision, swelter, irascibility, diarrhea, dyspnoea, saliva, vomiting, cyanosis, pupil constriction, tremble, spasm and reflex distortion.

First Aid Measures: If inhaled do not make puke, seek medical advice immediately. In case of contacting with eyes or skin wash with plenty of water at least 15 minutes.

Antidote: There is no specific antidote. Treatment should be done according to the symptoms.

5. FIRE FIGHTING MEASURES

Personal protection equipment for fire-fighting: Do not breathe gases which evolve during explosion and fire. If possible use air independent respirator during fire.

Dangers: Occuring dangerous gases during fire should be considered.

Extinguishers: Foam, CO₂ and fire-extinguishing powder.

Other Information: Take away the product from fire area, cool containers with water. If possible after extinguishing use sand or soil.

6. ACCIDENTAL RELEASE MEASURES

General Information: Please use the personal protection equipment defined under Section 8.

Personal Precautions: Do not touch spilled product or contaminated surfaces. Do not eat, drink or smoke while handling spilled product.

Spill Clean-up Procedure: Collect the product with a liquid retaining material (e.g. sand, sawdust, chemical binders). Place the product into tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations.

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Additional Precautions: Refer to Section 7 for safe handling instructions. Refer to Section 8 for personal protections equipment. Refer to Section 13 for disposal.

7. HANDLING AND STORAGE

Handling : Please use the personal protection equipment specified under Section 8. Do not eat or drink while handling the product. Avoid contact with the mouth, the skin or the eyes. Do not inhale the product. After handling the product thoroughly you're your hands. When handling closed containers no additional safety precautions other than the specified ones are needed. Only handle the product in rooms with a local suction device.

Storage : Please store the product in its original container, in a cool, dry and well-ventilated place. Keep away from food, drink and animal feed items. Protect from exposure to direct sunlight. Protect against freezing. Keep the product away from the reach of children. Storage temperature 30⁰C

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Precautions: Ensure appropriate general or local ventilation to keep the product concentration under allowed limits.

Personal Protection Equipment:

Eye Protection: Use eye protection equipment compliant with EN 166.

Skin Protection: Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

Respiratory Protection: Use respiratory apparatuses compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

Good Hygiene Conditions: Do not eat, drink or smoke while handling the product. Make sure to wash your hands each time before eating, drinking, smoking or going to the toilet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid, clear
Color	: Yellow to brown
Odor	: Aromatic
Density	: 0,90±0,05 g/cm ³ (20 ⁰ C)
pH	: 6,0 ± 1,10% (20 ⁰ C)
Flash Point	: 30 ± 5 ⁰ C

10. STABILITY AND REACTIVITY

- Conditions to be avoided** : Avoid direct sunlight. Isolate from sources of heat, naked flames or sparks
- Materials to be avoided** : Keep away from strong acids and alkalis.
- Dangerous reaction** : There is no dangerous reaction in appropriate storage and usage. No dangerous polymerization products.

11. TOXICOLOGICAL INFORMATION

Oxyfluorfen Technical Material:

Acute Oral LD₅₀ rat > 5000mg/kg

Skin and Eye: Acute percutaneous LD₅₀ rabbit >10000 mg/kg. Slightly irritant to skin and eyes on rabbit.

Respiration LC₅₀ rat 5, 4 mg/L

NOEL (20 month) rat 2 mg/kg diet (0. 3 mg/kg b.w. daily).

ADI/RfD (EPA) cRfD 0.03 mg/kg b.w. [2002].

Toxicity Class: WHO (a.i.) Ia; EPA (formulation) IV

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12. ECOLOGICAL INFORMATION

Oxyfluorfen Technical Material:

Bird Acute Oral LD₅₀ (8 days) duck (mallard duck) >5000 mg/kg and quail >2150 mg/kg,
Fish LC₅₀ (96 hours) *rainbow trout* ve *bluegill sunfish* 0,2 mg/l, channel catfish 0.4 mg/l.
Water flea EC₅₀ (48 hours) > 1. 5 mg/l
Algler EC₅₀ 6–3000 µg/l
Bee LD₅₀ >0.025 mg a.i./bee. No toxicity for honey bees.
Worm LC₅₀ >1000 mg/kg

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Do not dispose product waste together with household wastes. Waste residue should not be spilled into wastewater canals. Any product wastes should be disposed of in compliance with Hazardous Wastes Control Regulations.

Contaminated Materials: Empty containers should not be used for other products. Completely emptied and rinsed containers should be disposed in compliance with regulations. Non-clearable containers should be disposed of as hazardous materials.

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-No. : 1993

Class : 3

Packing Group : III

Product Type : UN 1993 FLAMMABLE LIQUID N.O.S. (CONTAINS OXYFLUORFEN, CYCLOHEXANONE AND XYLENE)

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IMDG

UN-No. : 1993

Class : 3

Packing Group : III

Product Type : UN 1993 FLAMMABLE LIQUID N.O.S. (CONTAINS OXYFLUORFEN, CYCLOHEXANONE AND XYLENE)

Marine Pollutant : Yes

IATA

UN-No. : 1993

Class : 3

Packing Group : III

Product Type : UN 1993 FLAMMABLE LIQUID N.O.S. (CONTAINS OXYFLUORFEN, CYCLOHEXANONE AND XYLENE)

15. REGULATORY INFORMATION

This data sheet is prepared based on regulation on preparation and distribution of safety data sheets about hazardous materials and preparations (O.G. issue no 27092 dated (26/12/2008).

Hazard Marks and Symbols:



Xn: Harmful



N: Dangerous For the Environment

Hazardous Materials Listed on the Label

Contains oxyfluorfen, cyclohexanone and xylene.

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Risk Phrases

Physicochemical

R10 : Flammable.

Health

R20/21 : Harmful, if inhaled and contact with skin.

R38 : Irritating the skin.

R65 : Harmful: may cause lung damage if swallowed

Environment

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases

S2 : Keep away from children and store under lock.

S13 : Keep away from food, drink and animal feeding stuffs.

S 36/37 : Wear suitable protective clothing and gloves.

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

S56 : Dispose the material at hazardous or special waste collection point.

S64 : If swallowed, rinse mouth with water (only if the person is conscious)

Important Labelling:

Follow instructions to avoid personal and environmental risks.

16. OTHER INFORMATION

All Hazard Symbols Mentioned in Section 2:

Xn: Harmful

Xi: Irritant

N: Dangerous for the environment

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All Risk Phrases Mentioned in Section 2:

R10 : Flammable.

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Prepared By : Sinem TOKSABAY

This material safety data sheet is provided as a supplement to instructions of manufacturer; however it does not replace instructions of manufacturer. The information provided in this sheet includes criteria of regulatory when preparing Safety Data Sheet. Required data are prepared in accord with "Regulation on Preparation and Distribution of Safety Data Sheets about Hazardous Materials and Preparations (O.G. issue no 27092 dated 26/12/2008)". Concerned institutions and people are invited to comply with the mentioned regulation.