

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

SORADO

Date of Preparation	27/07/2015
Date of Issue	27/07/2015
MSDS No	FORM_MSDS_R&D_221_00
Renewal Date/No	

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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. MATERIAL/PREPARATION AND COMPANY/OWNER IDENTIFICATION:

1.1 Material/Preparation Identification:

Product Name :**SORADO**
Product Content : Etoxazole 110 g/L
Formulation Form :SC (Suspension Concentrate)
Cas No : 153233-91-1
EC No : -
IRAC : 10B mite growth inhibitor

1.2 Usage of the Material/Preparation:

Insecticide

1.3 Company Identification:

2. Manufacturing and License Holding Company:

Company Name: AGRİ 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.

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2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Etoxazole	110	153233-91-1	-	N	R50/53	N; R50/53
Monopropilenglikol	80	57-55-6	-	-	-	-
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

3. HAZARD IDENTIFICATION:



N: DANGEROUS FOR THE ENVIRONMENT

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Poisoning indicators:It can irritate eyes. It irritates skin.

First Aid Measures: In the event of touch with skin, take off the clothes contaminated with pesticide. In case of contacting with eyes, wash with plenty of water for 15 min. Wash the skin with plenty of water. If pesticide is swallowed, call doctor or take the patient to a doctor with package or label of pesticide, do not puke. If the patient is not conscious, give nothing oral.

Antidote and Required Information: There is no special antidote. Symptomatic treatment is applied.

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5. FIRE FIGHTING MEASURES

Fire extinguishing appliance: Pressed water, CO₂, extinguisher powder, foam, sand. Get intervene to extinguish the fire until a serious danger occurs. Wear a protective mask.

In areas which is well-ventilated: Full face mask with combined filters (it doesn't protect carbon monoxide!)

In closed areas: Isolation device (which is not affected by environment, respiration by independent air source). Prevent fire water to spread to environment.

Take hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxide gases into consideration during fire.

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.

Additional Measures: Look section 7 for safe use, section 8 for personal protective equipment. Look section 13 for disposal.

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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: 0-40 °C

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: Use eye protection equipment compliant with EN 166.

Skin: 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.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid, viscose
Colour : White-Beige
Odour : Slightly
Density : $1,04 \pm 0,05 \text{ g/cm}^3$ (20°C)
pH : 5-9 10% (20°C)

10. STABILITY AND REACTIVITY

Conditions to avoid: Extreme temperatures and exposure to direct sunlight

Sakınılması gereken maddeler : -

Hazardous reactions: When stored and handled appropriately no hazardous reactions are observed.

11. TOXICOLOGICAL INFORMATION

Etiozole Technical Article:

Oral Acute oral LD₅₀ for male and female rats and mice >5000 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for male and female rats >2000 mg/kg. No skin or eye irritation (rabbits). Not a skin sensitiser (guinea pigs).

Inhalation LC₅₀ for male and female rats >1.09 mg/l.

Other Negative in Ames test.

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12. ECOLOGICAL INFORMATION

Ettoxazole Technical Article:

Birds Acute oral LD₅₀ for mallard ducks >2000 mg/kg. Sub-acute oral LD₅₀ (5 d) for bobwhite quail >5200 ppm diet.

Fish LC₅₀ for bluegill sunfish 1.4 mg/l (*EU Rev. Rep.*). LC₅₀ (96 h) for Japanese carp 0.89 mg/l; (48 h) for Japanese carp >20, rainbow trout >40 ppm.

Daphnia LC₅₀ (3 h) >40 ppm.

Algae EC₅₀ for *Selenastrum capricornutum* >1.0 mg/l.

Other aquatic spp. Disruption of moulting was observed in aquatic arthropods.

Bees LD₅₀ (oral and contact) >200 µg/bee.

Worms NOEL (14 d) for *Eisenia foetida* >1000 ppm.

13. DISPOSAL CONSIDERATIONS

Product: 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.

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14. TRANSPORTATION INFORMATION

ADR/RID/ADNR

UN-No. : 3082

Hazard Mark : 9

Packing Group : III

Product feature : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ETOXAZOLE)

IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product feature : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ETOXAZOLE)

IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product feature : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (CONTAINS ETOXAZOLE)



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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:



N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Contains Etoxazole

Risk Phrases:

Physicochemical-

Health :-

Environment

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S1/2: Keep in a locked place and away from children

S 9 - Keep container in a well-ventilated place

S 29 - Do not empty into drains

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S 56 - Dispose of this material and its container to hazardous or special waste collection point

Important Labelling:

Follow instructions to avoid personal and environmental risks.

16. OTHER INFORMATION

N:DANGEROUS FOR THE ENVIRONMENT

All Risk Phrases under Section 2:

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Prepared By : Remzican KARAN

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 only conforms to the regulatory criteria known at the time of the preparation of Safety Data Sheet. Required data are gathered 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 organizations and persons are invited to comply with the abovementioned regulation.