

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

EPOSTAR

Date of Preparation	14/11/2012
Date of Issue	14/11/2012
MSDS No	FORM_MSDS_R&D_085_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 : **EPOSTAR**
Product Content : GLYPHOSATE ISOPROPYL AMIN SALT 480 G/L
Formulation Form : SL (WATER SOLUBLE CONCENTRATE)
Cas No : 38641-94-0
EC No : 254-056-8
HRAC : G WSSA 9 glycine derivative

1.2 Intended Use of the Material/Preparation:

HERBICIDE

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.
Address : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
Telephone : +90 0232 864 13 33
Fax : +90 0232 864 16 79

1.4 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33.

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
GLYPHOSATE IPA	480	38641-94-0	254-056-8	Xi, N	R41,R51/53	Xi; R41, N; R51/53
Others*						

- ¹ R explanations are under section 16.
- * Outside classification due to absence of hazardous material.

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3. HAZARD IDENTIFICATION:



Xi: IRRITANT



N: DANGEROUS FOR THE ENVIRONMENT

R41: Risk of serious damage to eyes

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

4. FIRST AID MEASURES:

Poisoning indicators: Headache, dizziness, weakness, blurred vision, etc.

First Aid Measures: In case of poisoning please contact a doctor, and show the container and label of the product to the doctor. Any body parts which came into contact with the product should be rinsed using soap and plenty of water. Promptly remove the patient from product application area. Let the patient rest. Remove any clothing items contaminated with the product. If the patient is conscious get the patient to throw up. Have the patient lay down with his/her head turned to one side and keep the patient warm.

Antidote: There is no specific antidote.

Treatment: Treatment according to symptoms.

5. FIRE FIGHTING MEASURES

Appropriate Extinguishing Media: The product is not flammable on its own; extinguishing measures should be taken against potential surrounding ignitions.

Important protection equipment for fire fighting: If possible use air-independent respiratory masks. Wear protective clothing.

Other Information: Any containers which may be hazardous should be cooled down using water sprays.

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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 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: 0 to 30° C

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid, clear
Colour : Yellow
Odour : Faint Amin-like odour
Specific Gravity : 1.15 g/cm³ (at 20⁰C)
pH : 5.5± 1 1% (at 20⁰C)
Auto Ignition Temperature : Not flammable

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10. STABILITY AND REACTIVITY

Conditions to avoid: Extreme temperatures and exposure to direct sunlight

Incompatibility with other materials: None

Hazardous reactions: When stored and handled appropriately no hazardous reactions are observed. The product is resistant to specified storage conditions.

11. TOXICOLOGICAL INFORMATION

Glyphosate IPA Technical Material:

Acute oral toxicity: LD₅₀ mouse > 5000 mg/kg.

Acute dermal and eye toxicity: percutaneous LD₅₀ rabbit > 5000 mg/kg. Mild eye irritation on rabbits. No skin irritation.

Inhalation toxicity: LC₅₀ (4 hours) mouse > 1.3 mg/l air.

Toxicity Classification: EPA (formulation) III.

12. ECOLOGICAL INFORMATION

Glyphosate IPA Technical Material:

Fish: LC₅₀ (96 hours) for trout and bluegill sunfish >1000, fathead minnows 97, channel catfish 130 mg/l.

Algae: E_bC₅₀ (72 hours) *Scenedesmus subspicatus* 72.9 mg/l, E_rC₅₀ (72 h) 166 mg/l.

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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. TRANSPORTATION INFORMATION

ADR/RID/ADNR

UN-No. : 3082

Hazard Mark : 9

Packing Group : III

Product type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID N.O.S. (INCLUDES GLYPHOSATE IPA)

IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product Type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID N.O.S. (INCLUDES GLYPHOSATE IPA)

IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product Type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID N.O.S. (INCLUDES GLYPHOSATE IPA)



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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:



Xi: IRRITANT



N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Includes Glyphosate IPA.

Risk Phrases:

Physicochemical : -

Health : R41: Risk of serious damage to eyes

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

Safety Phrases:

S2: Keep out of the reach of children.

S9: Keep container in a well-ventilated place.

S25: Avoid contact with eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29: Do not empty into drains.

S39: Wear eye/face protection.

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

S56: Dispose of this material and its container at hazardous or special waste collection point.

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Important Labelling:

Follow instructions to avoid personal and environmental risks.

Additional Information:

Toxicity Class: EPA Formulation III.

16. OTHER INFORMATION

Xi: Irritant

N: Dangerous for the environment

All Risk Phrases under Section 2:

R41: Risk of serious damage to eyes.

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

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Prepared By : Secil CANAYAKIN

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.