

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

REBLOX

Date of Preparation	28/07/2015
Date of Issue	28/07/2015
MSDS No	FORM_MSDS_R&D_226_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 : **REBLOX**
Product Content : Bentazone 250 g/L + MCPA 125 g/L
Formulation Form : SL (WATER-SOLUBLE LIQUID)

Bentazone

CAS No : 25057-89-0
EC No : 246-585-8
HRAC : C₃ WSSA 6 benzothiadiazinone

MCPA

Cas No : 94-74-6
EC No : 202-360-6
HRAC : O WSSA 4 phenoxy-carboxylic acid

1.2 Usage 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 Torbali / IZMIR
Telephone : +90 0232 864 13 33
Fax : +900232 864 16 79

1.4 Emergency Contact Telephone:

Please call +90 0232 864 13 33 and/or National Poisoning Information Centre 114 in case of an emergency.

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Bentazone	250	25057-89-0	246-585-8	Xn, Xi	R22, R36, R43, R52-53	Xn;R22-36 R43 R52-53
MCPA	125	94-74-6	202-360-6	Xn, Xi	R22, R38, R41	Xn;R22-38-41
Etanolamin	107.34	141-43-5	205-483-3	C,Xn	R20/21/22, R34, R52/53	C;R20/21/22- 34 R52/53
Diğerleri	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

3. HAZARD IDENTIFICATION



C: Corrosive

R22 - Harmful if swallowed.

R34 - Causes burns.

R36 - Irritating to eyes.

R41 - Risk of serious damage to eyes.

R43 - May cause sensitization by skin contact.

R 52/53 - Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

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4. FIRST AID MEASURES

Eye Contact: Wash eyes with plenty of water for 15 min. Consult an eye specialist.

Skin contact: Wash off with soap and water. Take off the contaminated clothes. In case of contaminating the skin and eye, wash the body part with plenty of water and soap.

If inhaled: Move patient to fresh and well-ventilated area, call a doctor.

If swallowed: If patient is not unconscious, the mouth should be rinsed, do not puke, call a doctor.

5. FIRE FIGHTING MEASURES

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

Hazards: Formation of dangerous gases is taken into account in case of fire.

Fire extinguishers: Foam, carbon dioxide, extinguishing powder.

Other Details: Cool the containers with sprayed water. If possible, use sand after the 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.

Clean-up Methods: The poured material is collected with a liquid catcher material (for instance; sucking sand, sawdust, chemical binder). 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.

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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 using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not required except of stated warnings during using the closed package. Use only in rooms, in which there is a local sucking device.

Storage: Keeping original package in cool, dry and well ventilated places. Keep away from food and animal feed items. Keep away from direct sunlight. Keep against freezing. Keep it in places that children cannot reach. Storage temperature is under 50 °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 : 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.

Hygiene Measures: Do not eat, drink or smoke while handling the product. Wash your hands each time before eating, drinking, smoking or going to the toilet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid, clear
Color	: Yellow-brown
Odor	: Characteristic
Density	: $1.13 \pm 0,05 \text{g/cm}^3$ (20 ⁰ C)
pH	: $6.2 \pm 11\%$ (20 ⁰ C)
Flash Point	: Not flammable

10. STABILITY AND REACTIVITY

Conditions to be avoided: Extreme degrees and direct sun light

Materials to be avoided: Strong acids and alkaline.

Dangerous reaction: There is no dangerous reaction in appropriate storage and usage. It is resistant in mentioned storage conditions.

11. TOXICOLOGICAL INFORMATION

Bentazone Technical Material:

Oral Acute oral LD₅₀ for rats >1000, dogs >500, rabbits 750, cats 500 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >2500 mg/kg. Moderately irritating to skin and eyes (rabbits). Is a skin sensitiser.

Inhalation LC₅₀ (4 h) for rats >5.1 mg/l air.

NOEL (1 y) for dogs 13.1 mg/kg b.w.; (2 y) for rats 10 mg/kg b.w.; (90 d) for rats 25, dogs 10 mg/kg b.w.; (78 w) for mice 12 mg/kg b.w.

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ADI/RfD (EC) 0.1 mg/kg b.w. [2000]; (JMPR) 0.1 mg/kg b.w. [1998, 1999, 2004]; (EPA) cRfD 0.03 mg/kg b.w. [1994, 1998].

Toxicity Class WHO (a.i.) III; EPA (formulation) III

MCPA Technical Material:

Oral Acute oral LD₅₀ for rats 962–1470 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >4000 mg/kg. Not irritating to skin; severe eye irritant. Not a skin sensitiser.

Inhalation LC₅₀ (4 h) for rats >6.36 mg/l.

NOEL (24 mo) for rats 20 ppm (c. 1.25 mg/kg daily), for mice 100 ppm (c. 18 mg/kg daily).

ADI/RfD (EC) 0.05 mg/kg b.w. [2008]; (EPA) aRfD 0.4, cRfD 0.0044 mg/kg b.w. [2004]. **Toxicity Class** WHO (a.i.) III; EPA (formulation) III

12. ECOLOGICAL INFORMATION

Bentazone Technical Material:

Birds Acute oral LD₅₀ for bobwhite quail 1140 mg/kg. Dietary LC₅₀ for bobwhite quail and mallard ducks >5000 ppm.

Fish LC₅₀ (96 h) for rainbow trout and bluegill sunfish >100 mg/l.

Daphnia LC₅₀ (48 h) 125 mg/l.

Algae EC₅₀ (72 h) for green algae (*Ankistrodesmus*) 47.3 mg/l.

Bees Not toxic to bees; LD₅₀ (oral) >100 µg/bee.

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Worms EC₅₀ (14 d) >1000 mg/kg soil.

MCPA Technical Material:

Birds Acute oral LD₅₀ for bobwhite quail 377 mg/kg. Sub-acute dietary LC₅₀ (5 d) for bobwhite quail and mallard ducks >5620 ppm.

Fish LC₅₀ (96 h, using MCPA salt solution) for rainbow trout 50–560, bluegill sunfish >150, carp 317, silverside 220 mg/l.

Daphnia LC₅₀ (48 h) >190 mg/l.

Algae EC₅₀ for *Selenastrum capricornutum* >392 mg/l.

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

Worms LD₅₀ (14 d) for *Eisenia foetida* 325 mg/kg dry soil.

13. DISPOSAL INFORMATION

Product: Do not dispose it 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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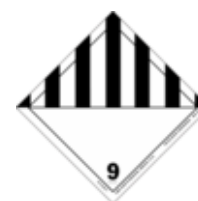
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14. TRANSPORTATION INFORMATION

It is not in dangerous material class from the point of transport.



ADR/RID/ADNR

UN-No. : UN 1760

Hazard Mark : 8

Packing Group : III

Product type : UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS BENTAZONE, MCPA VE ETANOLAMIN)

IMDG

UN-No. : UN 1760

Class : 8

Packing Group : III

Sea Pollutant : Yes

Product Type : UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS BENTAZONE, MCPA VE ETANOLAMIN)

IATA

UN-No. : UN 1760

Class : 8

Packing Group : III

Product Type : UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS BENTAZONE, MCPA VE ETANOLAMIN)

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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:



C: Corrosive

Hazardous Materials Listed on the Label

Contains Bentazone, MCPA ve Etanolamin

Risk Phrases:

Physicochemical : -

Health :

R22 - Harmful if swallowed.

R34 - Causes burns.

R36 - Irritating to eyes.

R41 - Risk of serious damage to eyes.

R43 - May cause sensitization by skin contact.

Environment :

R 52/53 - Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

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Safety Phrases:

- S(1/2) : Keep locked up and out of the reach of children
S13 : Keep away from food, drink and animal feeding stuffs
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
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection
S45 : In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
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
S64 : If swallowed, rinse mouth with water (only if the person is conscious)

Important Labeling:

Follow instructions to avoid personal and environmental risks

16. OTHER INFORMATION

Xi: Irritant

C: Corrosive

N: Dangerous for Environment

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All Risk Phrases under Section 2:

R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R34 - Causes burns.

R36 - Irritating to eyes.

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

R43: Make sensitive in case of contact with skin.

R 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.