

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

RAMSES

Date of Preparation	28/07/2015
Date of Issue	28/07/2015
MSDS No	FORM_MSDS_R&D_228_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 : RAMSES
Product Content : % 25 Rimsulfuron
Formulation Type : Soluble Granule (SG)

Rimsulfuron

CAS No : 122931-48-0
EC No :-
HRAC : B WSSA 2 sulfonylurea

1.2 Usage of the Material/Preparation:

Herbicide

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name: AGRİ SCIENCES TARIM VE İLAÇ ÜR. 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:

Please call +90 0232 864 13 33 and Emergency and/or National Poison Information Center 114 in case of emergency.

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance	%	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Rimsulfuron	25	122931-48-0	-	N	R50/53	N; R50/53
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

General Suggestion: In case of emergency, call a doctor; take the pesticide label with you.

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

Skin contact: Wash off with soap and water.

If inhaled: Move patient to fresh and well-ventilated area, do not puke, and call a doctor.

If swallowed: Consult to doctor with the product label and MSDS document. Do not puke.

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5. FIRE FIGHTING MEASURES

Fire extinguishers: Water mist, foam, carbon dioxide, extinguishing powder.

Hazards: Formation of dangerous gases as carbon oxides (COx), nitrogen oxides (NOx) and sulfur oxides is taken into account in case of fire.

Personal Protective Equipment for Fire-fighting: Do not inhale the fumes occurred during the explosion and fire. If available, use self-contained respiratory device during the fire.

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

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.

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 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 : Granule
Color : Beige-brown
Odor : Characteristic
Density : $0.65 \pm 0.05 \text{g/cm}^3$ (20⁰C)
pH : 7.0 ± 1 (10% solution 20⁰C)

10. STABILITY AND REACTIVITY

Conditions to avoid: Extreme temperatures and exposure to direct sunlight

Material to avoid: -

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

11. TOXICOLOGICAL INFORMATION

Rimsulfuron Technical Article:

Oral Acute oral LD₅₀ for rats >5000 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rabbits >2000 mg/kg. Non-irritating to skin; moderately irritating to eyes (rabbits). Non-sensitising to skin (guinea pigs).

Inhalation LC₅₀ (4 h) for rats >5.4 mg/l air.

NOEL (2 y) for male rats 300, female rats 3000 ppm; (18 mo) for mice 2500 ppm; (1 y) for dogs 50 ppm (1.6 mg/kg b.w.). NOEL in 2-generation rat reproduction study 3000 ppm. Not teratogenic or oncogenic.

ADI/RfD (EC) 0.1 mg/kg b.w. [2006]; (EPA) 0.818 mg/kg b.w. [2006].

Other Non-mutagenic in the Ames test.

Toxicity Class WHO (a.i.) U.

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12. ECOLOGICAL INFORMATION

Rimsulfuron Technical Article:

Birds Acute oral LD₅₀ for bobwhite quail >2250, mallard ducks >2000 mg/kg. Dietary LC₅₀ for bobwhite quail and mallard ducks >5620 ppm.

Fish LC₅₀ (96 h) for bluegill sunfish and rainbow trout >390, carp >900, sheepshead minnows 110 mg/l.

Daphnia LC₅₀ (48 h) >360 mg/l.

Algae NOEC (72 h) for *Selenastrum capricornutum* 125 g/l.

Other aquatic spp. EC₅₀ (14 d) for *Lemna gibba* 66 g/l.

Bees LD₅₀ (contact) >100 µg/bee; (dietary) >1000 ppm.

Worms LC₅₀ (14 d) for earthworms (*Eisenia foetida*) >1000 mg/kg.

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. : 3077

Hazard Mark : 9

Packing Group : III

Product type : UN 3077 Environmental hazardous substance, solid, N.O.S.
(CONTAINS RIMSULFURON)



IMDG

UN-No. : 3077

Class : 9

Packing Group : III

Marine Pollutant : Yes

Product type : UN 3077 Environmental hazardous substance, solid, N.O.S.
(CONTAINS RIMSULFURON)

IATA

UN-No. : 3077

Class : 9

Packing Group : III

Product type : UN 3077 Environmental hazardous substance, solid, N.O.S.
(CONTAINS RIMSULFURON)

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15. REGULATORY INFORMATION

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).

Hazard Marks and Symbols:



N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Contains Rimsulfuron

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

S 1/2 - Keep locked up and out of the reach of children.

S 29 - Do not empty into drains

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

point

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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.