

SAFETY DATA SHEET (SDS)

TITLE: RIMSULFURON 250 WDG

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Identifier

Identification on the label / Trade name : AG RIMSULFURON 250 WDG
 Common Name : Rimsulfuron 250 g/kg WDG
 CAS No. : 122931-48-0
 EC No. : N/A
 REACH registration No. : N/A

Relevant identified uses of the substance and uses advised against:

Agricultural Pesticide

Details of the Manufacturer / Supplier of the safety data sheet:

Supplier AGROMEC SARL
 P.O.Box: 462
 Jounieh, Lebanon
 Tel +961 9 226874
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 Webpage www.agromec-international.com

Emergency Phone Number (24 hours)

+961 3 980599

2.0 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Hazards to the aquatic environment, acute: Category 1 (H400)

chronic Category 1 (H410)

WHO classification
 hazards

Class U (unlikely to present acute hazard in normal use). Health
 The product may be mildly irritating to skin and eyes.

Environmental hazards
 many green plants.

The product is a herbicide and therefore expected to be toxic to

2.2. Label elements

According to EU Reg. 1272/2008

Product identifier

Rimsulfuron 25% w/w WG

Hazard pictogram (GHS09)



Signal word

Warning

Hazard statement

H410

Very toxic to aquatic life with long lasting effects.

Supplementary hazard statement

EUH401
the instructions of use.

To avoid risks to human health and the environment, comply with

Precautionary statements

P273

Avoid release to the environment.

P391

Collect spillage.

P501

Dispose of contents/container as hazardous waste.

2.3. Other hazards

Excessive dust formation may pose a dust explosion hazard.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Active ingredient

Rimsulfuron

Content: 25% by weight

CAS name

2-Pyridinesulfonamide, N-[[[4,6-dimethoxy-2-pyrimidinyl)amino]-

CAS no.

122931-48-0

IUPAC name

1-(4,6-Dimethoxypyrimidin-2-yl)-3-(3-ethylsulfonyl-2-pyridyl-

ISO name/EU name

Rimsulfuron

EC no. (EINECS no.)

None

EU index no.

None

Classification of the ingredient

Hazards to the aquatic environment, acute: Category 1 (H400)

4.0 FIRST AID MEASURES

First-aid measures general	:	Call a physician immediately.
First-aid measures after inhalation comfortable for breathing.	:	Remove person to fresh air and keep
First-aid measures after skin contact	:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	:	Do not induce vomiting. Call a physician immediately.

5.0 FIRE – FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6.0 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures :

Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment :

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up :

Take up liquid spill into absorbent material.

Other information:

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information, refer to section 13.

7.0 HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling:

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures:

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on physical and chemical properties

Appearance	Brown solid (granules)
Odour	Pungent
Odour threshold	
pH	Not determined
Melting point	1% dispersion in water: 6.27 at 22°C
Initial boiling point and boiling range	Not determined
Flash point	
Evaporation rate	Not determined
Flammability (solid/gas)	Not determined
Upper/ lower flammability or	Not determined
Vapour pressure	Rimsulfuron : 8.9×10^{-7} Pa at 20°C
Vapour density	Not determined
Relative density	Not determined
Solubilities	Solubility of rimsulfuron at 25°C in:
	N,N-dimethylformamide 241 g/l
	acetonitrile 17.2 g/l
	n-hexane < 0.01 g/l
	water 0.135 g/l at pH 5
	7.3 g/l at pH 7
	5.56 g/l at pH 9
Partition coefficient n-octanol/water	Rimsulfuron : $\log K_{ow} = 0.288$ at pH 5 and 25°C
	$\log K_{ow} = -1.46$ at pH 7 and 25°C
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

Further safety related physical-chemical data are not known.

10.0 STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.0 TOXICOLOGICAL INFORMATION

Product

Acute toxicity		The product is not harmful by inhalation, in contact with skin or if swallowed. * However, it should always be treated with the usual care
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: > 2000 mg/kg (method OECD 425)
	- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402)
	- inhalation	LC ₅₀ , inhalation, rat: > 5.07 mg/l/4 h (method OECD 403)
Skin corrosion/irritation		The product is not irritating to skin (method OECD 404). *
Serious eye damage/irritation		The product may be slightly irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...		The product is not a skin sensitizer (method OECD 429). *
Germ cell mutagenicity		The product contains no ingredients known to be mutagenic. *
Carcinogenicity		The product contains no ingredients known to be carcinogenic. *
Reproductive toxicity		The product contains no ingredients found to have adverse effects on reproduction. *

12.0 ECOLOGICAL INFORMATION

12.1. Toxicity	Rimsulfuron is highly toxic to aquatic plants, but is practically non-toxic to fish, aquatic invertebrates, soil micro- and macroorganisms, birds, mammals and insects.
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The ecotoxicity of the active ingredient **rimsulfuron** is measured as:

- Fish	Rainbow trout (<i>Salmo gairdneri</i>)	96-h LC ₅₀ : > 390 mg/l
		21-dav NOEC: 125 mg/l
- Invertebrates	Daphnids (<i>Daphnia magna</i>)	48-h EC ₅₀ : > 360 mg/l
		21-dav NOEC: 1 mg/l

- Algae	Green algae (<i>Selenastrum capricornutum</i>)	72-h IC ₅₀ : 1.2 mg/l
	Cyanobacteria (<i>Anabaena flos-aquae</i>)	96-h IC ₅₀ : 1.9 mg/l
- Plants	Duckweed (<i>Lemna minor</i>)	14-day EC ₅₀ : 0.005 mg/l
- Earthworms	<i>Eisenia foetida foetida</i>	14-day LC ₅₀ : > 1000 mg/kg soil
- Birds	Bobwhite quail (<i>Colinus virginianus</i>)	LD ₅₀ : > 2250 mg/kg
	Mallard duck (<i>Anas platyrhynchos</i>)	LD ₅₀ : > 2000 mg/kg
		9-day LC ₅₀ : > 5620 ppm
- Insects	Bees (<i>Apis mellifera</i>)	48-h LD ₅₀ , contact: > 100 µg/bee
		48-h LC ₅₀ , oral: > 1000 ppm

12.2. Persistence and degradability	Rimsulfuron is moderately persistent in the environment. Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic water and soil.
	The product contains minor amounts of not readily biodegradable ingredients which may not be degradable in waste water treatment plants.
12.3. Bioaccumulative potential	See section 9 for n-octanol/water partition coefficients.
	Due to its solubility in water, rimsulfuron does not bioaccumulate.
12.4. Mobility in soil	Under normal conditions rimsulfuron is mobile in the environment.
12.5. Results of PBT and vPvB assessment	None of the ingredients meets the criteria for being PBT or vPvB.
12.6. Other adverse effects	Other relevant hazardous effects in the environment are not known.

13.0 DISPOSAL CONSIDERATIONS

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

14.0 TRANSPORT INFORMATION

ADR/RID/IMDG/IATA/ICAO classification

14.1. UN number	3077
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (rimsulfuron)
14.3. Transport hazard class(es)	9
14.4. Packing group	III
14.5. Environmental hazards	Marine pollutant
14.6. Special precautions for user	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.

15.0 REGULATORY INFORMATION

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| 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture | Seveso category (Dir. 2012/18/EU): dangerous for the environment.

All ingredients are covered by EU chemical legislation. |
| 15.2. Chemical safety assessment | A chemical safety assessment is not required to be included for this product. |

16.0 OTHER INFORMATION

Further Information

The information contained herein relates only to the specified material identified. AGROMECH believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. AGROMECH urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.