

SAFETY DATA SHEET (SDS)

TITLE: METRIBUZIN 600 SC

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING**Product Identifier**

Identification on the label / Trade name : AG METRIBUZIN 600 SC
Common Name : Metribuzin 600 g/l SC
CAS No. : 21087-64-9
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
E-mail agromec@agromec-international.com
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****Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001**

6.1E
H303 May be harmful if swallowed.
6.9B
H373 May cause damage to organs through prolonged or repeated exposure.
9.1A
H410 Very toxic to aquatic life with long lasting effects.
9.2A
H421 Very toxic to the soil environment.

9.3B
H432 Toxic to terrestrial vertebrates.

2.2 Label elements

Labelling in accordance with Hazardous Substances Identification Regulations 2001

Hazard label for supply/use required.



Signal word: Warning

Hazard statements

- H303 May be harmful if swallowed.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.
 H421 Very toxic to the soil environment.
 H432 Toxic to terrestrial vertebrates.

Precautionary statements

- P102 Keep out of reach of children.
 P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.
 P391 Collect spillage.
 P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Suspension concentrate (=flowable concentrate)(SC)
 Metribuzin 600 g/l

Hazardous components

Name	CAS-No.	Conc. [%]
Metribuzin	21087-64-9	52.17
Fatty alcohol ethoxylate	68131-39-5	>= 1 – < 2
1,2-Benzisothiazol-3(2H)-one	2634-33-5	>= 0.005 – < 0.05

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 basic physical and chemical properties

Form	Liquid
Colour	white
Odour	strong, characteristic
pH	6.0 - 7.0 at 100 % (23 °C)
Flash point	>100 °C
No flash point - Determination conducted up to the boiling point.	
Ignition temperature	435 °C
Density	ca. 1.15 g/cm ³ at 20 °C
Water solubility	suspensive
Partition coefficient: n- octanol/water	
Metribuzin: log Pow: 1.6	
Surface tension	30.9 mN/m at 25 °C
Determined in the undiluted form.	
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive
92/69/EEC, A.14 / OECD 113	

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

11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg

Acute inhalation toxicity LC50 (Rat) > 0.967 mg/l
Exposure time: 4 h
Determined in the form of a respirable aerosol. Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg **Skin**

irritation No skin irritation (Rabbit) **Eye**

irritation No eye irritation (Rabbit)

12.0 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 74.6 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 49.6 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient.

Toxicity to aquatic plants IC50 (Desmodesmus subspicatus (green algae)) 0.036 mg/l
Growth rate; Exposure time: 72 h
EC50 (Lemna gibba (gibbous duckweed)) 0.0614 mg/l
Growth rate

12.2 Persistence and degradability

Biodegradability Metribuzin: Not rapidly biodegradable

Koc Metribuzin: Koc: 24 - 106

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/ADN

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(METRIBUZIN SOLUTION)

14.3 Transport hazard class(es) 9

14.4 Packing group III

14.5 Environm. Hazardous Mark YES

Hazchem Code 3Z

IMDG

14.1 UN number 3082

14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METRIBUZIN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METRIBUZIN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

15.0 REGULATORY INFORMATION

Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances

16.0 OTHER INFORMATION

Further Information

The information contained herein relates only to the specified material identified. AGROMECC believes that such information is accurate and reliable as of the data 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. AGROMECC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.