

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : ERGON
Code product : FH-009 - Metsulfuron-methyl 68 g/kg + Thifensulfuron-methyl 682 g/kg WG -

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/preparation : Agriculture Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam Europe Ltd
Hamilton House, Mabledon Place
London WC1H 9BB
United Kingdom
Tel : +44 020 7953 0447
msds@rotam.com

1.4. Emergency telephone number

Emergency number : NHS Direct : 08 45 46 47 or 111 (England and Wales)
NHS 24 : 08 454 24 24 24 (Scotland)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Classification in accordance with UK regulations (MAPP N° 14382)

N; R50/53

Full text of R-phrases: see section 16

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Acute 1; H400
Aquatic Chronic 1; H410

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard symbols :



Signal word (CLP) : Warning
Hazard statements (CLP) : H410 - Very toxic to aquatic life with long lasting effects.

Additional Hazard Statements (CLP) : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements (CLP) : P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
SP1 - Do not contaminate surface water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads.)

SPe3 - To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Thifensulfuron-methyl	(CAS-Nr) 79277-27-3 (INDEX-Nr) 016-096-00-2	68.2	N; R50/53
Sodium polycarboxylate	(CAS-Nr) 37199-81-8	5 - 10	Xi; R36/38
Sulfonated aromatic polymer, sodiumsalt		5 - 10	Xi; R41 Xi; R38
Metsulfuron-methyl	(CAS-Nr) 74223-64-6 (INDEX-Nr) 613-139-00-2	6.8	N; R50/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Thifensulfuron-methyl	(CAS-Nr) 79277-27-3 (INDEX-Nr) 016-096-00-2	68.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodium polycarboxylate	(CAS-Nr) 37199-81-8	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Sulfonated aromatic polymer, sodiumsalt		5 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318
Metsulfuron-methyl	(CAS-Nr) 74223-64-6 (INDEX-Nr) 613-139-00-2	6.8	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a physician or poison control center immediately.
First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area.
First-aid measures after skin contact : When symptoms occur: rinse immediately with plenty of water.
First-aid measures after eye contact : Rinse eyes with plenty of water.
First-aid measures after ingestion : Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
Unsuitable extinguishing media : High volume water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Hazardous fumes may be released above.
Explosion hazard : Product is not explosive.
Reactivity : The product is stable at normal handling- and storage conditions.

5.3. Advice for firefighters

No additional information available

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according to Regulation (EC) No 1907/2006 and 453/2010

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).

6.2. Environmental precautions

Do not allow contamination of public drains or surface or ground waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Wear proper protective equipment.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place.

Incompatible materials : Oxidants, strong acids and strong bases.

Storage area : Store away from heat.

7.3. Specific end use(s)

Professional use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure that there is a suitable ventilation system. Do NOT handle in a confined space.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Granules
Colour : Off-white
Odour : No characteristic odour
Odour threshold : Not applicable
pH : Not applicable
pH solution : 5.64 (1% solution, CIPAC MT 75.3)
Relative evaporation rate (butylacetate=1) : Not applicable
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : Not applicable
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not flammable (EEC A.10)
Vapour pressure : Not applicable
Relative vapour density at 20 °C : No data available
Relative density : Tap density : 0.677 (MT 186)
Density : Not applicable
Solubility : Not applicable, mixture
Log Pow : Not applicable, mixture
Log Kow : Not applicable, mixture
Viscosity, kinematic : Not applicable

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according to Regulation (EC) No 1907/2006 and 453/2010

Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive (Thermal analyses)
Oxidising properties	: Not oxidising (EEC A.17)
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling- and storage conditions.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ERGON	
LD50 oral rat	> 5000 mg/kg (OECD Guideline n°425)
LD50 dermal rat	> 5050 mg/kg (OECD Guideline n°402)
LC50 inhalation rat (mg/l)	> 2.12 mg/l/4h (OECD Guideline n°403)

Irritation	: Not irritant to skin (OECD Guideline n°404), Not irritant to eyes (OECD Guideline n°405)
Corrosivity	: Not classified
Sensitisation	: Not sensitizing (OECD Guideline n°406)
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified

SECTION 12: Ecological information

12.1.

ERGON	
ErC50 (Algae) 72h	0.219 mg/l (<i>Anabaena flos-aquae</i>) (OECD Guideline n°201)
EyC50 (Algae) 72h	0,041 mg/l (<i>Anabaena flos-aquae</i>) (OECD Guideline n°201)
NOEC (Algae) 72h	< 0,006 mg/l (<i>Anabaena flos-aquae</i>) (OECD Guideline n°201)
ErC50 (other aquatic plants) 7days	0.001042 mg/l (<i>Lemna gibba</i> L.) (OECD Guideline n°221)
EyC50 (other aquatic plants) 7days	0.000556 mg/l (<i>Lemna gibba</i> L.) (OECD Guideline n°221)
NOEC (other aquatic plants) 7days	0.000293 mg/l (<i>Lemna gibba</i> L.) (OECD Guideline n°221)

12.2. Persistence and degradability

Metsulfuron-methyl and thifensulfuron-methyl are not persistent in the environment.
Metsulfuron-methyl and thifensulfuron-methyl are not readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

Koc <100 (Metsulfuron-methyl)
Koc range 13 – 55 (Thifensulfuron-methyl) (EU review report)

12.5. Results of PBT and vPvB assessment

Metsulfuron-methyl and Thifensulfuron-methyl do not fulfil the criteria of a PBT or vPvB substance

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according to Regulation (EC) No 1907/2006 and 453/2010

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Must be disposed of or incinerated in accordance with local regulations.
Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3077

14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl/metsulfuron-methyl)
Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl/metsulfuron-methyl), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 9
Hazard labels (UN) : 9



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
Classification code : M7
Orange plates :



Tunnel restriction code : E
Limited quantities (ADR) : LQ27
Excepted quantities (ADR) : E1
EAC code : 2Z

14.6.2. Transport by sea

Marine Pollutant

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Irrit.2	Serious eye damage/eye irritation Category 2
Eye Dam. 1	Serious eye damage, Category 1.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H319	Causes serious eye irritation.
H318	Causes serious eye damage.
H315	Causes skin irritation.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R41	Risk of serious damage to eyes.
R36/38	Irritating to eyes and skin
R38	Irritating to skin
Xi	Irritant
N	Dangerous for the environment

SDS EU (REACH Annex II)

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