



ROSULFURON 60 WG

Metsulfuron-methyl 600g/kg WG

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date: 11-12-2015

Version: 2.2

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

1.1. Product identifier

Product name : ROSULFURON 60 WG
Product code : FH-004

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Herbicide be used by professionals for agriculture

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam Agrochemical Company Ltd
Unit 6, 26/F Trend Centre, 29 Cheung Lee Street, Chai Wan, Hong Kong
Tel. : 852-2896 0662 Fax: 852-2558 6577
msds@rotam.com

1.4. Emergency telephone number

Emergency number : (86) 532 8388 9090

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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 pictograms (CLP) :



GHS09

Signal word (CLP) : Warning
Hazard statements (CLP) : H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP) : P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents/container to local regulation.

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 | Specific concentration limits | |
|--------------------|--|---|---|
| metsulfuron-methyl | (CAS No.) 74223-64-6 (EC index no) 613-139-00-2 | (0.00025 =< C < 0.0025) R52/53 (0.0025 =< C < 0.025) N;R51/53 (0.025 =< C) N;R50/53 | |
| Name | Product identifier | g/kg | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| metsulfuron-methyl | (CAS No.) 74223-64-6 (EC index no) 613-139-00-2 | 600 | Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 |

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : When symptoms occur: 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 | : Rinse mouth and then drink plenty of water. DO NOT induce vomiting. Seek medical advice. |

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 (CO ₂). |
| Unsuitable extinguishing media | : high volume water jet. |

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|---|
| Fire hazard | : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NO _x). |
| Explosion hazard | : Product is not explosive. |
| Reactivity | : The product is stable at normal handling- and storage conditions. |

5.3. Advice for firefighters

| | |
|-----------------------------|---|
| Precautionary measures fire | : Wear self-contained breathing apparatus and protective suit (see item 8). |
|-----------------------------|---|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Wear appropriate personal protective equipment (PPE) : coverall, boots. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|---------------------------------------|
| Protective equipment | : Wear personal protective equipment. |
| Emergency procedures | : Avoid contact with the releasing. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Wear appropriate personal protective equipment (PPE) : coverall, boots. |
|----------------------|---|

6.2. Environmental precautions

Do not allow material to contaminate water systems.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| Methods for cleaning up | : Large spills: scoop solid spill into closing containers. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. |
|-------------------------|--|

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Do NOT get in eyes, on skin or on clothing. |
|-------------------------------|---|

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

No additional information available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : Solid |
| Colour | : Off-white |
| Odour | : Mild characteristic odour |
| Odour threshold | : No data available |
| pH | : 5.47 at 20°C |
| Relative evaporation rate (butylacetate=1) | : Not applicable |
| Melting point | : Not applicable |
| Freezing point | : Not applicable |
| Boiling point | : Not applicable |
| Flash point | : Not applicable |
| Self ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not highly flammable |
| Vapour pressure | : Not applicable |
| Relative vapour density at 20 °C | : Not applicable |
| Relative density | : Pour density: 0.6219 at 23.4°C; Tap bulk density: 0.6727 at 23.4°C |
| Solubility | : No data available |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : Not applicable |
| Explosive properties | : Not explosive |
| Oxidising properties | : No oxidising properties |
| Explosive limits | : No data available |

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

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

All heat sources.

10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Metsulfuron-methyl 600g/kg WG | |
|-------------------------------|----------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 5050 mg/kg |
| LC50 inhalation rat (mg/l) | > 2.27 mg/l/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Slightly irritant but not relevant for classification. |
| Serious eye damage/irritation | : Slightly irritant but not relevant for classification. |
| Respiratory or skin sensitisation | : Did not elicit a sensitizing reaction in guinea pigs |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

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| | |
|--|------------------|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| Metsulfuron-methyl 600g/kg WG | |
|-------------------------------|----------------------------|
| LC50 fish | > 200 mg/l(96h,TECAM data) |
| EC50 Daphnia | 51.76 mg/l(48h,TECAM data) |
| ErC50 (algae) | 0.5 mg/l(72h,TECAM data) |

12.2. Persistence and degradability

| metsulfuron-methyl (74223-64-6) | |
|---------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative potential

| metsulfuron-methyl (74223-64-6) | |
|---------------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

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.(Metsulfuron-methyl)
Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(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.

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14.6. Special precautions for user

14.6.1. Overland transport

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



Special provision (ADR) : 274, 335, 601
Transport category (ADR) : 3
Tunnel restriction code : E
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1
EAC code : 2Z

14.6.2. Transport by sea

Not applicable

14.6.3. Air transport

Not applicable

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 |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| N | Dangerous for the environment |

SDS EU (REACH Annex II)

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