

Safety data sheet

(acc. Regulation (EC) No 1907/2006)

Tradename: Metsulfuron Methyl 60% WP
Company: DVA Agro GmbH

Date: 01.11.2007
Rev.: 1
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Identification of the substance or preparation

Product name: Metsulfuron Methyl 60% WP

1.2 Use of the substance/preparation

Recommended use: - Herbicide

1.3 Company/undertaking identification

DVA Agro GmbH
Stadthausbrücke 1-3
D-20355 Hamburg
Tel. +49-40-822285-0
Fax +49-40-822285-999

1.4 Emergency phone

+32-14-584545

2. HAZARDS IDENTIFICATION

- This product is dangerous regarding to Directive 1999/45/EC.
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization substance preparation
Mixture from Metsulfuron Methyl and inert ingredients

Metsulfuron Methyl

Methyl-2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-amino]carbonyl]-amino]-sulfonyl]benzoate

CAS-No: 74223-64-6
Symbol(s): N
R phrases: 50/53
concentration: approx.60%

4. FIRST AID MEASURES

4.1. Inhalation

- Bring affected victim outside away from exposure and provide for fresh air.
- Call for prompt medical advice.

4.2. Eye contact

- Immediately rinse eyes with plenty of water for 15 minutes ensuring eyelids are held open.
- Obtain medical advice if any pain persists.

4.3. Skin contact

- Immediately wear off contaminated clothing. Wash affected skin with water and soap.
- If irritation persists, seek medical advice.

4.4. Ingestion

- Immediately drinking of plenty of water.
- Induce vomiting.
- Immediately obtain medical advice.

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

- Water (Spray – not splash), extinguishing powder, carbon dioxide, foam.

5.2. Extinguishing media which must not be used for safety reasons

- Water jet.

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5.3. Special exposure hazards

- Forming of dangerous gases / vapours at decomposition:
carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of sulphur

5.4. Special protective equipment for fire-fighters

- Use self-contained breathing apparatus when right next to fire or in closed rooms.
- Clean equipment after use (Shower, clean and check clothing carefully).

5.5. Further precautions

- Keep use of water under control according to possible environmental endangering (s.section 6).

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

- Pay attention to protective measurements according to section 8.
- Avoid contact with skin, eyes and clothing.
- Provide for good ventilation.
- Avoid development of dust.

6.2. Environmental precautions

- Inform the appropriate authorities if considerable quantities of the product are released.
- Prevent escape into water, drainage, sewer or the ground.

6.3. Methods for cleaning up

- Take up mechanically.
- Avoid development of dust.
- Collect in a closed, labelled and product-resistant container.
- Concerning disposal see section 13.

7. HANDLING AND STORAGE

7.1 Handling

- Keep away from reactive material (see section 10).
- Local ventilation is recommended.
- No special measurements necessary if handled and stored as recommended.

7.2. Storage

- Store in closed original packaging.
- Keep container tightly closed and store at a dry and well ventilated place.
- Keep away from extreme heat, open flames and direct sunlight.
- Keep away from food, drink and animal feeding stuffs.

7.3. Specific use(s)

- Ask supplier before special use.

7.4. Further precautions

- Inform personnel about dangerous product.
- Avoid direct contact with the product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

- Pay attention to measurements according section 7.
- Install local ventilation when danger of decomposition.
- At present there are no information regarding exposure limit values.

8.1. Occupational exposure controls

8.1.1 Respiratory protection

- When released and during dust/fog/smoke-development use a particle filter P2 or P3 (color white).
- Use only equipment according to international/national regulations.

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8.1.2 Hand protection

- Chemical resistant gloves
- Recommended material: nitril caoutchouc, chloroprene caoutchouc, PVC

8.1.3. Eye protection

- Glasses with side protection.

8.1.4 Skin protection

- Protective workclothings

8.1.5. Hygiene measures

- Shower and eye shower
- Do not eat, drink or smoke at work.
- Wash hands before breaks and after work.
- Take off contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: Powder
Colour: white
Odour: mild

9.2. Important health, safety and environmental information

pH: not applicable (20°C)
Boiling point: Not applicable (Decomposition)
Flash point: Not applicable
Flammability: Not flammable
Explosive properties: Not applicable
Density: No data available (20°C)
Solubility: Water (20°C) insoluble
Soluble in acetone, methanol and methylene chlorid
Slightly soluble in hexane
Partition coefficient: Not determined
(n-octanol/water)

9.3. Other information

Melting point/range: 158°C
Decomposition temperature: not available
Vapour pressure: no data available

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

- Thermal stable under 50°C

10.2 Materials to avoid

- None.

10.3 Hazardous decomposition products

- carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of sulphur

11. TOXICOLOGICAL INFORMATION

11.1. Toxicological details

Acute Toxicity

- Acute oral toxicity, rat LD 50 > 5000 mg/kg
- Acute dermal toxicity, rabbit LD 50 > 2000 mg/kg

11.2. Consequences for health

Irritation

- No data available.

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Sensitization

- No data available

11.3. Further information

Chronic exposure

- No data available.

Carcinogenicity

- No data available.

Reproduction toxicity

- No data available.

Mutagenicity

- No data available.

Teratogenicity

- No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Acute Ecotoxicity

- Fishes: No data available.
- Crustaceans: No data available.
- Algae: No data available.

12.2 Persistence and degradability

Biotic Degradability

- No data available.

12.3 Bioaccumulation

- No data available

12.4 Ecotoxicological Valuation

- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Prevent escape into water, drainage, sewer or the ground.

13. DISPOSAL CONSIDERATIONS

13.1. Waste handling

- Obey the local and national regulations for recycling.
- Dispose the product at a authorized special waste site or in an authorized waste burning site.

13.2. Packaging handling

- Dispose at a authorized waste burning site for dangerous goods waste.

14. TRANSPORT INFORMATION

14.1. Land transport (ADR/RID and GGVSE)

| | |
|------------------------------|---|
| UN | 3077 |
| Class | 9 |
| Description | Environmentally hazardous substance, solid, n.o.s. (Metsulfuron Methyl) |
| Packaging group | III |
| Dangerous goods label | 9 |

14.2 Sea transport (IMDG and GGVSee)

| | |
|------------------------------|---|
| UN | 3077 |
| Class | 9 |
| Correct techn. name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron Methyl) |
| Packaging group | III |
| Dangerous goods label | 9 |
| Marine Pollutant | Yes |

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| | |
|---------------------------------------|---|
| EmS-No. | F-A, S-F |
| 14.3 Air transport (ICAO/IATA) | |
| UN | 3077 |
| Class | 9 |
| Proper shipp. name | Environmentally hazardous substance, solid, n.o.s. (Metsulfuron Methyl) |
| Packaging group | III |
| Dangerous goods label | 9 |

15. REGULATORY INFORMATION

15.1. EC-labelling

| | | |
|-----------|-------|--|
| Symbols | N | Dangerous for the environment |
| R-Phrases | 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S phrases | 60 | This material and its container must be disposed of as hazardous waste. |
| | 61 | Avoid release to the environment. Refer to special instructions/safety data sheet. |

16. OTHER INFORMATION

R-Phrases

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Sources of information

EC Directive 67/548/EEC resp. 1999/45/EC in valid version; regulation (EC) No 1907/2006 (REACH) in valid version; National exposure limit values in valid version; Transport regulations according to ADR, RID, IMDG, IATA in valid version; information from supplier.

Latest Update

Section 1, 2, 3, 11, 16

These details are based on our today's knowledge. They should describe our products regarding safety requirements and therefore should not assure certain properties.