

SAFETY DATA SHEET

7/2/01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Dow AgroSciences Limited
 Latchmore Court
 Brand Street
 Hitchin
 Herts SG5 1NH

Emergency Telephone Number: UK: 0870 600 2999
 Eire: 01 821 4999

Poisons Information Centre: UK: 0121 507 5588/5589
 Eire: 01 837 9964/66

Product Name: **EF1166 HERBICIDE : MAFF 07966**

LV70: 50354 Issue Date: March 96
 Revised: Nov. 00 (Section(s) 1, 3, 13 & 15)

Ref: B9110

2. COMPOSITION/INFORMATION ON INGREDIENTS**Components contributing to hazard:**

| | | CAS | EINECS |
|-------------------------------------|---------|-------------|-----------|
| Metosulam | 10 g/L | 139528-85-1 | |
| Fluroxypyr 1- methylheptyl ester | 144 g/L | 081406-37-3 | 279-752-9 |
| Solvent plus inert ingredients | Balance | | |
| Composition Code | EF1166 | | |

3. HAZARDS IDENTIFICATION

Irritating to skin.
 Dangerous to fish or other aquatic life.

SAFETY DATA SHEET

7/2/01

EF1166 HERBICIDE : MAFF 07966

4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Ingestion

Do not induce vomiting. Call a physician. The decision of whether to induce vomiting or not should be made by an attending physician.

Eye Contact

Irrigate immediately with water for at least 5 minutes. Consult a physician if irritation persists.

Skin Contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse.

Inhalation

Remove to fresh air. Consult a physician.

Note to Physician

No known antidote, however due to the low acute oral toxicity it is unlikely that one would be required. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Water fog or fine spray. Carbon dioxide. Dry chemical. Foam.

Hazardous Combustion Products

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

Protection of Firefighters

Wear protective clothing and use self-contained breathing apparatus.

Additional Information

Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear appropriate safety clothing and eye/face protection (see Section 8).

SAFETY DATA SHEET

7/2/01

EF1166 HERBICIDE : MAFF 07966

Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of Cleaning Up

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

7. HANDLING AND STORAGE**Handling**

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid eye and skin contact.

Storage

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

None established for the preparation.

Metosulam: Dow AgroSciences IHG is 0.4 mg/m³.

Fluroxypyr 1-methylheptyl ester: Dow AgroSciences IHG is 10 mg/m³.

Supplier recommendation for solvent is 100 ppm

Engineering Controls

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory Protection

For most conditions, no respiratory protection should be needed.

However, when airborne exposure guidelines and/or comfort levels may be exceeded use an approved air-purifying respirator.

For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Hand/Skin Protection

For brief contact, no precautions other than clean body-covering clothing and impervious gloves should be needed. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

SAFETY DATA SHEET

7/2/01

EF1166 HERBICIDE : MAFF 07966

Eye/Face Protection

Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|-----------------------------|
| Appearance | : liquid |
| Colour | : white to off-white |
| Odour | : none |
| Rel. density (water=1) | : 1.06 (20 deg.C) (approx.) |
| pH | : 3.7-4.0 (neat) |
| Water solubility | : (emulsifies/suspends) |
| Auto-ignition temp. | : 480-490 deg.C |
| Flash point | : 88 deg.C (PMCC) |
| Flammability-LFL | : not flammable |
| Flammability-UFL | : not flammable |

10. STABILITY AND REACTIVITY**Chemical Stability**

Is stable under normal storage conditions.

Conditions to Avoid

Avoid extremes of temperature.

Materials to Avoid

Strong basic, acidic or oxidising materials.

Hazardous Decomposition Products

None under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION**Ingestion**

Single dose oral toxicity is considered to be low.

The oral LD50 for rats is >5000 mg/kg.

Skin Contact

The dermal LD50 for rats is >2000mg/kg.

A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

May cause moderate and prolonged irritation.

May cause drying or flaking of skin.

Sensitisation

Non-sensitising to guinea pig skin.

Eye Contact

May cause moderate and prolonged irritation with corneal injury.

SAFETY DATA SHEET

7/2/01

EF1166 HERBICIDE : MAFF 07966

Inhalation

No adverse effects anticipated by this route of exposure incidental to proper handling.

12. ECOLOGICAL INFORMATION**Persistence and Degradability**

Assessment largely or completely based on data for active ingredient.

Metosulam:

Aerobic degradation occurs. Half-life in soils is dependent on soil type and conditions and is approximately 6 days.

Fluroxypyr 1-methylheptyl ester:

Rapidly hydrolysed to the parent acid. The principle route of degradation is microbial and will occur readily. Half-life in soils is dependent on soil type and conditions and is approximately 14-56 days. There is no evidence of any significant leaching, therefore it is unlikely to contaminate ground water.

Aquatic Toxicity

Material is slightly toxic to fish on an acute basis (10mg/l <LC50 <100mg/L).

Material is slightly toxic to aquatic invertebrates on an acute basis (10mg/L <LC50 <100mg/L).

Material is toxic to algae (1mg/l < IC50 <10 mg/l).

Avian Toxicity

Assessment largely or completely based on data for active ingredient.

Metosulam:

Material is practically non-toxic to birds on an acute basis (LD50 >2000mg/kg).

Fluroxypyr 1-methylheptyl ester:

Material is practically non-toxic to birds on an acute basis (LD50 >2000mg/kg).

Other Information

Assessment largely or completely based on data for active ingredient.

Non-toxic to bees.

13. DISPOSAL CONSIDERATIONS

Dangerous to fish or other aquatic life. Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

SAFETY DATA SHEET

7/2/01

EF1166 HERBICIDE : MAFF 07966

14. TRANSPORT INFORMATION

Sample shipment not allowed by mail. Product is not classified for any mode of transportation.

15. REGULATORY INFORMATION

Hazard Symbol : Xi - Irritant

Risk Phrases : Irritating to skin. (R38)

Safety Phrases : Keep out of reach of children. (S2)
Keep away from food, drink and animal feeding stuffs.
(S13)
When using do not eat, drink or smoke. (S20/21)
Wear suitable gloves. (S37)

16. OTHER INFORMATION

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made.