

**IMS+MPR OD 100+300 G****U-EU**

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Version 1 / D
102000011563Revision Date: 11.05.2005
Print Date: 26.05.2006**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

| | | |
|------------------------|--|------|
| Trade name | IMS+MPR OD 100+300 G | U-EU |
| Product code (UVP) | 06352286 | |
| Product code | AE F115008 02 OD35 A2 | |
| Company | Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim Germany | |
| Telephone | +49(0)69-305-5748 | |
| Telefax | +49(0)69-305-80950 | |
| Responsible Department | Material and Transport Safety Management +49(0)69-305-82369/12588 | |

Emergency telephone number +49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Oil dispersion (OD)

contains Iodosulfuron-methyl sodium salt/Mefenpyr-diethyl 100:300 g/l

Hazardous components

| Chemical Name | CAS-No. / EINECS-No. | Symbol(s) | R-phrases(s) | Concentration [%] |
|--|-----------------------|-----------|---------------------------------|---------------------|
| Iodosulfuron-methyl-sodium | 144550-36-7 | N | R50/53 | 10,00 |
| Sodium dioctyl sulphosuccinate | 577-11-7 209-406-4 | Xi | R36/38 | >= 10,00 - <= 20,00 |
| Solvent Naphtha (petroleum), light aromatic | | Xn, N | R10, R37, R51/53, R65, R66, R67 | <= 10,00 |
| Naphthalenesulfonic acid, sodium salt, polymer with formaldehyde | 9008-63-3 | Xi | R36/38 | <= 5,00 |
| Solvent Naphtha (petroleum), heavy aromatic | | Xn, N | R51/53, R65, R66 | <= 30,00 |

3. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Irritating to eyes.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

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Inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

Rinse mouth. Do not induce vomiting. Call a physician immediately.

Notes to Physician**Symptoms**

Local: irritant effects, Systemic: To date no symptoms are known.

Risks

Risk of product entering the lungs on vomiting after ingestion.

Treatment

Initial treatment should be symptomatic and supportive.

In the event of a mouthful or more being ingested, the following measures should be considered:

Gastric lavage, then charcoal (carbo medicalis) and sodium sulfate.

Monitoring of: kidney, liver and red blood cell count.

Monitoring of respiratory and cardiac functions.

Elimination by dialysis (forced alkaline diuresis).

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

water spray

foam

dry powder

carbon dioxide (CO₂)

Extinguishing media which must not be used for safety reasons

high volume water jet

Specific hazards during fire fighting

In the event of fire the following can be released:

carbon monoxide (CO)

nitrogen oxides (NO_x)

Sulphur oxides

hydrogen chloride (HCl)

hydrogen iodide (HI)

Under certain conditions of combustion traces of other toxic substances, such as hydrocyanic acid, cannot be excluded

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Wear full protective suit.

Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

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Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Whenever possible, contain fire-fighting water by bunding area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate personnel to safe areas.

Use personal protective equipment.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Additional Advice

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Avoid formation of aerosol.

Advice on protection against fire and explosion

The product is combustible.

The product is neither self-ignitable, nor forms an explosion hazard, nor does it promote fires.

The product is neither sensitive to impacts nor to rubbing effects and is therefore not explosive.

Storage

Requirements for storage areas and containers

Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

German storage class

3B Combustible Liquids

Storage stability

Other data

Storage temperature should not exceed 30 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Components | CAS-No. | Control parameters | Update | Basis |
|---|---------|-----------------------------|---------|----------|
| Solvent Naphtha (petroleum), light aromatic | | 200 mg/m ³ (MAK) | 01 2003 | TRGS 900 |
| Solvent Naphtha (petroleum), heavy aromatic | | 200 mg/m ³ (MAK) | 01 2003 | TRGS 900 |

Engineering measures

See chapter 7; no measures exceeding those mentioned are necessary.

Personal protective equipment

Respiratory Protection Short term: filter apparatus, Filter A/P2

Hand Protection nitrile rubber

Eye protection Safety glasses with side-shields

Skin and body protection protective suit

Hygiene measures

When using, do not eat, drink or smoke.

Wash hands and face before breaks and immediately after handling the product.

Protective measures

Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

| | |
|--------|----------|
| Form | liquid |
| Colour | brown |
| Odour | aromatic |

Safety data

| | |
|--------------------------|--|
| pH | 7,0 - 9,0 at 10 % (20 °C) |
| Flash Point | 81 °C 92/69/EEC, A.9 / EPA OPPTS 830.6315 |
| Autoignition Temperature | 460 °C at 1.022,2 hPa 92/69/EEC, A.15 |
| Density | ca. 1,13 g/cm ³ at 20 °C |
| Water Solubility | dispersible |
| Viscosity, dynamic | <= 250 mPa.s at 20 °C |
| Surface tension | 27,6 mN/m at 25 °C Determined in the undiluted form |
| Surface tension | 45 mN/m at 20 °C |

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Explosivity

Not explosive
92/69/EEC, A.14 / OECD 113

10. STABILITY AND REACTIVITYHazardous Decomposition
Products

No hazardous decomposition products known.

Hazardous Reactions

None known.
Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity

LD50 (rat) > 5.000 mg/kg
Test conducted with a similar formulation.

Acute Dermal Toxicity

LD50 (rat) > 4.000 mg/kg
Test conducted with a similar formulation.

Skin Irritation

No skin irritation (rabbit)
Test conducted with a similar formulation.

Eye Irritation

Irritating to eyes. (rabbit)

Sensitization

Non-sensitizing (guinea pig)
OECD 406, Buehler test

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Biodegradability

Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

Ecotoxicity effects

Toxicity to Fish

LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 7,75 mg/l
Exposure time: 96 h

Toxicity to daphnia

EC50 (Water flea (*Daphnia magna*)) 8,3 mg/l
Exposure time: 48 h

Toxicity to algae

EC50 (*Pseudokirchneriella subcapitata*) 6,71 mg/l
Exposure time: 72 h

13. DISPOSAL CONSIDERATIONS**Product**

Do not dispose of waste into sewer.

Must be incinerated in a suitable incineration plant holding a permit delivered by the competent

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authorities.

Contaminated packaging

Rinse empty containers with water and use the rinse-water to prepare the working solution.
Empty and rinsed containers to be taken to PAMIRA, the cost-free collection system for packaging materials in agriculture.
Packaging that cannot be cleaned should be disposed of as product waste.
Do not use containers for other products.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

| | |
|--------------------------|--|
| UN-No | 3082 |
| Labels | 9 |
| Packaging group | III |
| Hazard no. | 90 |
| Description of the goods | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC SOLUTION) |

IMDG

| | |
|--------------------------|---|
| UN-No | 3082 |
| Class | 9 |
| Packaging group | III |
| EmS | F-A , S-F |
| Marine pollutant | Marine pollutant |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC SOLUTION) |

IATA

| | |
|--------------------------|---|
| UN-No | 3082 |
| Class | 9 |
| Packaging group | III |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC SOLUTION) |

15. REGULATORY INFORMATION

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Iodosulfuron-methyl-sodium

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| | |
|-----------------------|---|
| Symbol(s) | |
| Xi | Irritant |
| N | Dangerous for the environment |
| R-phrases(s) | |
| R36 | Irritating to eyes. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S-phrases(s) | |
| S35 | This material and its container must be disposed of in a safe way. |
| S57 | Use appropriate container to avoid environmental contamination. |
| Exceptional labelling | |
| | To avoid risks to man and the environment, comply with the instructions for use. |
| Further information | |
| | WHO-classification: III (Slightly hazardous) |

National legislation

| | |
|--|---|
| Water contamination class (Germany) | WGK 2 water endangering Classification according to VwVwS, Annex 4 |
| Major Accident Hazard Legislation | Subjected to the "Disasters and Major Accidents Act " 96/82/EC Annex I, list of dangerous substances, No. 9ii |

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

| | |
|--------|--|
| R10 | Flammable. |
| R36/38 | Irritating to eyes and skin. |
| R37 | Irritating to respiratory system. |
| R50/53 | Very toxic 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. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness. |

For further information on active ingredients see also: Wirkstoffe in Pflanzenschutz- und Schädlingsbekämpfungsmitteln: physikalisch-chemische und toxikologische Daten IVA, Industrieverb. Agrar e.V. - 3., neubearb. Aufl. - München; Wien; Zürich; BLV Verl.-Ges.mBH, 2000 ISBN 3-405-15809-5

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

This information is based on our present state of knowledge. It should not therefore be construed as



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guaranteeing specific properties of the products described or their suitability for a particular application.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.