

**ASM+IMS+MPR OD 100+25+250 G****U-EU**

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Version 3 / D

Revision Date: 20.05.2005

102000008346

Print Date: 26.05.2006

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

Product information

Trade name ASM+IMS+MPR OD 100+25+250 G U-EU
 Product code (UVP) 06281230
 Product code AE F075032 08 OD33 A1
 Usage herbicide
 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)
 iodosulfuron-methyl-sodium+amidosulfuron+mefenpyr-diethyl 25+100+250 g/L

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Mefenpyr-diethyl	135590-91-9			22,00
Iodosulfuron-methyl-sodium	144550-36-7	N	R50/53	2,20
Amidosulfuron	120923-37-7		R52/53	9,00
Solvent Naphtha (petroleum), heavy aromatic		Xn, N	R51/53, R65, R66	> 25,00
Solvent Naphtha (petroleum), light aromatic		Xn, N	R10, R37, R51/53, R65, R66, R67	< 15,00
Sodium dioctyl sulphosuccinate	577-11-7 209-406-4	Xi	R36/38	> 5,00 - < 20,00
Fatty alcohol polyglycol ether		Xn	R22, R41	< 10,00

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.



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4. FIRST AID MEASURES

General advice

Remove from exposure, lie down. Keep warm and in a quiet place. Remove soiled or soaked clothing immediately.

Inhalation

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

Skin contact

Wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of lukewarm water for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion

Rinse mouth. Do not induce vomiting. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract). If symptoms persist, call a physician.

Notes to Physician

Symptoms

local irritation, Systemic:, To date no symptoms are known.

Treatment

Treat symptomatically.

Gastric lavage is not normally required. If a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

There is no specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

water spray
alcohol-resistant 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)

Special protective equipment for fire-fighters

Wear full protective suit.

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

Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid

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pressure being built up due to heat.

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.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental Precautions

Do not discharge into the drains/surface water/groundwater.

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

Methods for Cleaning Up

Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material).

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.

Advice on protection against fire and explosion

The product is combustible.

Keep away from sources of ignition - No smoking.

Vapours may form explosive mixtures with air.

Storage

Requirements for storage areas and containers

Store in original container.

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

Keep away from direct sunlight.

Keep away from heat.

Protect against frost.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

German storage class

3B Combustible Liquids

Storage stability

Storage period

> 12 Months

Storage temperature

2 - 30 °C

Other data

Storage temperature should not exceed 40 °C.

Suitable materials

Store in original container.

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polyamid innerlined polyethylene (coex) bottles

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
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 / face shield

Skin and body protection Light protective clothing, PVC

Hygiene measures

When using, do not eat, drink or smoke.

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

Handle in accordance with good industrial hygiene and safety practice.

Protective measures

Avoid contact with skin and eyes.

Do not inhale aerosols

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid
 Colour light brown
 Odour aromatic

Safety data

pH ca. 10,4 at 1 % (20 °C)
 Suspension in water

Flash Point 83 - 92 °C
 closed cup

Autoignition Temperature 440 °C
 92/69/EEC, A.15

Density ca. 1,13 g/cm³ at 20 °C

Water Solubility dispersible

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Viscosity, kinematic	113 mm ² /s at 40 °C shearstress of 100/sec
Viscosity, kinematic	203 mm ² /s at 40 °C shearstress of 20/sec
Surface tension	35,7 mN/m at 20 °C Determined as a 0.1% solution in distilled water (1 g/l).
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 5.000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 633 µg/l Exposure time: 4 h Test conducted with a similar formulation. Highest attainable concentration.
Acute Dermal Toxicity	LD50 (rat) > 4.000 mg/kg
Skin Irritation	slight irritant effect - does not require labelling (rabbit)
Eye Irritation	irritating (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.
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Ecotoxicity effects

Toxicity to Fish	LC50 (Rainbow trout (Oncorhynchus mykiss)) 8,59 mg/l Exposure time: 96 h
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Toxicity to daphnia	EC50 (Water flea (Daphnia magna)) 3,2 mg/l Exposure time: 48 h The ecotoxicological data refer to a similar formulation.
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata) 1,08 mg/l Exposure time: 72 h The ecotoxicological data refer to a similar formulation.

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 authorities.

Contaminated packaging

Do not use containers for other products.
Empty and rinsed containers to be taken to PAMIRA, the cost-free collection system for packaging materials in agriculture.
Not completely emptied packagings should be disposed of as special waste.

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 MIXTURE)

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 MIXTURE)

IATA

UN-No	3082
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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(IODOSULFURON-METHYL SODIUM, SOLVENT NAPHTHA
(PETROLEUM) HEAVY AROMATIC MIXTURE)

15. REGULATORY INFORMATION

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

Hazardous components which must be listed on the label:

- Iodosulfuron-methyl-sodium
- Solvent Naphtha (petroleum), heavy aromatic

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)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S39	Wear eye/face protection.
S57	Use appropriate container to avoid environmental contamination.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

Risk classification according to BetrSichV (Germany)	A III: Flash Point > 55°C up to 100°C, at 15°C not miscible with water
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Water contamination class (Germany)	WGK 2 water endangering Classification according to VwVwS, Annex 4
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Major Accident Hazard Legislation	Subjected to the "Disasters and Major Accidents Act " 96/82/EC Annex I, list of dangerous substances, No. 9b
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16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

R10	Flammable.
R22	Harmful if swallowed.

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R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
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.
R52/53	Harmful 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 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.