

**IMS+MSM+MPR WG 0,6+3+9 W****U-EU**

1/8

Version 1 / EU
102000011354Revision Date: 16.10.2007
Print Date: 29.10.2007**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	IMS+MSM+MPR WG 0,6+3+9 W	U-EU
Product code (UVP)	06402585	
Usage	Herbicide	
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim Germany	
Telephone	+49(0)2173-38-3373	
Telefax	+49(0)2173-38-7394	
Responsible Department	Material and Transport Safety Management +49(0)2173-38-3409/4566 Email: INFO.EHS@bayercropscience.com	

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

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

Irritating to skin.

Risk of serious damage to eyes.

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

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

Water dispersible granules (WG)

Mesosulfuron-methyl (3% w/w), Iodosulfuron-methyl sodium (0,6% w/w), Mefenpyr-diethyl (9% w/w)

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Mesosulfuron-methyl	208465-21-8	N	R50/53	3,20
Iodosulfuron-methyl-sodium	144550-36-7	N	R50/53	0,60
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn, N	R51/53, R65, R66	<= 20,00
Polyglycol ether	345642-79-7	Xi, N	R38, R41, R43, R51/53	<= 10,00
Alkylated naphthalene sulfonate, formaldehyde polymer, sodium salt		Xi	R36/38	<= 15,00

For the full text of the R phrases mentioned in this Section, see Section 16.

**IMS+MSM+MPR WG 0,6+3+9 W****U-EU****2/8**Version 1 / EU
102000011354

Revision Date: 16.10.2007

Print Date: 29.10.2007

4. FIRST AID MEASURES

Inhalation

Call a physician or poison control center immediately. Move to fresh air.

Skin contact

Take off contaminated clothing and shoes immediately. 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 the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Notes to Physician**Symptoms**

Local:, Irritation, Systemic:, To date no symptoms are known.

Treatment

Initial treatment: symptomatic.

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

In case of ingestion perform gastric lavage, then administer charcoal (carbo medicalis) and sodium sulfate.

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

Elimination by dialysis (forced alkaline diuresis).

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray

Foam

Dry powder

Carbon dioxide (CO₂)

Extinguishing media which should 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)

Sulphur oxides

Hydrogen chloride (HCl)

Hydrogen iodide (HI)

Cyanides

Nitrogen oxides (NO_x)

Special protective equipment for fire-fighters

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

Further information

Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

**IMS+MSM+MPR WG 0,6+3+9 W****U-EU****3/8**Version 1 / EU
102000011354Revision Date: 16.10.2007
Print Date: 29.10.2007**Personal Precautions**

Use personal protective equipment.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.

Methods for Cleaning Up

Use mechanical handling equipment.

Keep in suitable, closed containers for disposal.

Avoid dust formation.

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 dust formation.

Advice on protection against fire and explosion

Care should be taken to avoid formation of dust from abraded granules.

Storage

Requirements for storage areas and containers

Store in original container.

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

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Temperature tolerance

0 °C to 30 °C

Storage temperature should not exceed 30 °C.

Suitable materials

Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol copolymer (EVOH)

Coextruded containers with an internal barrier layer made of polyamide (PA).
aluminium composite film (min. 0,007 mm Aluminium)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection

Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

**IMS+MSM+MPR WG 0,6+3+9 W****U-EU**

4/8

Version 1 / EU
102000011354

Revision Date: 16.10.2007

Print Date: 29.10.2007

	instructions regarding wearing and maintenance.
Hand Protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 5 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
Hygiene measures	When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
Protective measures	Do not breathe dust. Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	water-dispersible granules
Colour	brown
Odour	aromatic

Safety data

pH	8,5 - 9,5 at 10 % (23 °C)
Autoignition Temperature	> 409 °C
Bulk Density	approx. 672 - 788 g/l
Water solubility	dispersible
Partition coefficient: n-octanol/water	log Pow: 1,9 at 25 °C The value mentioned relates to the active ingredient mesosulfuron-methyl.
Partition coefficient: n-octanol/water	log Pow: 1,96 at 25 °C The value mentioned relates to the active ingredient idosulfuron-methyl-sodium.
Impact Sensitivity	not impact-sensitive
Combustion number	CN2 Short flaring without spreading

**IMS+MSM+MPR WG 0,6+3+9 W****U-EU**

5/8

Version 1 / EU
102000011354

Revision Date: 16.10.2007

Print Date: 29.10.2007

Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113
Explosivity	Not explosive
Dust content	almost dustfree

10. STABILITY AND REACTIVITY

Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.
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11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 2.000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 3,25 mg/l Exposure time: 4 h Highest attainable concentration.
Acute Dermal Toxicity	LD50 (rat) > 5.000 mg/kg
Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	Severe eye irritation. (rabbit)
Sensitization	Non-sensitizing. (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

Further information

Information given is based on data obtained from similar substances.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 7,5 g/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 13,1 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) > 10 mg/l Exposure time: 72 h
Toxicity to algae	EC50 (<i>Lemna gibba</i> (duckweed)) 45,8 µg/l Exposure time: 7 d

Further information on ecology

Additional ecological information

**IMS+MSM+MPR WG 0,6+3+9 W****U-EU****6/8**Version 1 / EU
102000011354Revision Date: 16.10.2007
Print Date: 29.10.2007

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13. DISPOSAL CONSIDERATIONS

Product

Do not dispose of waste into sewer.

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging

Triple rinse containers.

Add washings to sprayer at time of filling.

Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.

Not completely emptied packagings should be disposed of as hazardous waste.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-Number	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

IMDG

UN-Number	3077
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

IATA

UN-Number	3077
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

**IMS+MSM+MPR WG 0,6+3+9 W****U-EU****7/8**Version 1 / EU
102000011354Revision Date: 16.10.2007
Print Date: 29.10.2007

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:

- Mesosulfuron-methyl
- Iodosulfuron-methyl-sodium

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrase(s)

R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(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.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.
Contains polyglycol ether. May produce an allergic reaction.

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 3:

R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
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.

The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. 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



IMS+MSM+MPR WG 0,6+3+9 W

U-EU

8/8

Version 1 / EU
102000011354

Revision Date: 16.10.2007
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information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

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