

**HUSSAR 21307 8X0,6KG IE**Version 1 / IRL
102000007311/7
Revision Date: 11.05.2004
Print Date: 11.05.2004**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name HUSSAR 21307 8X0,6KG IE
Product code (UVP) 05938171
Product code AE F115008 02 WG20 B0
Specification 21307
Usage herbicide
Company Bayer CropScience
Bayer Ltd
Chapel Lane, Swords
CO Dublin
Ireland

Telephone +353-1-8132222
Telefax +353-1-8132288
Emergency telephone number 1800-409-399

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

Water dispersible granules (WG)
Iodosulfuron-methyl sodium salt / Mefenpyr-diethyl 5% / 15% WG

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-pharse(s)	Concentration [%]
Iodosulfuron-methyl-sodium	144550-36-7	N	R50/53	5.00
Mefenpyr-diethyl	135590-91-9	N	R51/53	15.00
Kaolin	1332-58-7			> 5.00 - < 25.00
Amorphous silica	63231-67-4			> 5.00 - < 25.00
Solvent naphtha (petroleum), heavy arom.		Xn, N	R51/53, R65, R66	> 5.00 - < 25.00

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

Risk of serious damage to eyes.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES**Inhalation**

Move the patient to fresh air and keep at rest. When dust is intensively inhaled, seek medical help immediately.



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Skin contact

In case of contact with skin wash off immediately with soap and water.

Eye contact

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

Ingestion

Call a physician immediately. Do not induce vomiting.

Notes to physician

Symptoms

To date no symptoms are known.

Treatment

Initial treatment should be symptomatic and supportive.
Gastric lavage, then charcoal (carbo medicalis) and sodium sulfate.
In the event of a mouthful or more being ingested, the following measures should be considered:
Monitoring of: kidney, liver and red blood cell count.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water spray
foam
carbon dioxide (CO₂)
dry powder

Specific hazards during fire fighting

In the event of fire the following can be released:
nitrogen oxides (NO_x)
Sulphur oxides
hydrogen iodide (HI)

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.
Wear full protective suit.

Further information

Avoid generation of dust clouds
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.
Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions

Keep people and animals away.
Do not allow spilt product to enter soil or waterways
If the product contaminates rivers and lakes or drains inform respective authorities.
Local authorities should be advised if significant spillages cannot be contained.

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Methods for cleaning up

Use mechanical handling equipment.
Pack spilled material in suitable containers for recovery or 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.
Handle in accordance with good industrial hygiene and safety practice.

Advice on protection against fire and explosion

Avoid deposition of dust
Dust explosion can only occur under extreme experimental conditions.
Care should be taken to avoid formation of dust from abraded granules.

Storage

Requirements for storage areas and containers

The storage temperature should lie between 0 °C and 30 °C, maximum up to 50 °C.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials

Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Kaolin	1332-58-7	2.0 mg/m ³ (TWA)	2002	ELV (IE)
Amorphous silica	63231-67-4	4 mg/m ³ (TWA)	2002	ELV (IE)
		10 mg/m ³ (TWA)	2002	ELV (IE)
		6 mg/m ³ (TWA)	2002	ELV (IE)
		2.4 mg/m ³ (TWA)	2002	ELV (IE)

Additional advice

Observe: Exposure Limits In Air, Gp3 200mg/m³/50ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72)

Engineering measures

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

Personal protective equipment

Respiratory protection Particle filter P2

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Hand protection Chemical resistant gloves

Eye protection safety glasses

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Do not eat, drink or smoke during work time.

Remove soiled clothing immediately.

Clean hands and face at work intervals and after work.

Store work clothing separately.

Protective measures

Do not breathe dust.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**Form solid
Colour light brown
Odour slightly aromatic**Safety data**pH 8.4 - 8.9 at 10 - 100 g/l
 weakly alkaline

Melting point/ range > 190 °C

Flash point not applicable

Flammability (solid, gas) does not ignite

Ignition temperature 360 °C

Autoignition temperature 378 °C

Bulk density 690 - 760 g/l

Water solubility 25 g/l at 20 °C

Partition coefficient (n-
octanol/water) log Pow: -0.7
 The value mentioned relates to the active ingredient.

Solubility in other solvents 12 g/l at 20 °C
 Medium: methanol

Solubility in other solvents > 380 g/l at 20 °C
 Medium: acetone

Explosivity Not explosive

10. STABILITY AND REACTIVITY

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Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed
Thermal decomposition	> 250 °C
Hazardous reactions	No hazardous reactions known.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) > 5,000 mg/kg
Acute inhalation toxicity	LC50 (rat) > 3.47 mg/l Exposure time: 4 h Highest attainable concentration.
Acute dermal toxicity	LD50 (rat) > 5,000 mg/kg
Skin irritation	non-irritant (rabbit)
Eye irritation	Risk of serious damage to eyes. (rabbit)
Sensitization	non-sensitizing (guinea pig) OECD 406, Buehler test

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 10 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 7.8 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Selenastrum capricornutum</i>) 0.08 mg/l Exposure time: 96 h
Toxicity to bacteria	EC50 (<i>Pseudomonas putida</i>) > 1,000 mg/l Exposure time: 3 h

13. DISPOSAL CONSIDERATIONS**Product**

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

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as product waste.
Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.

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Waste key for the unused product

020108 agrochemical waste containing dangerous substances

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

UN-No	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MEFENPYR-DIETHYL)

IMDG

UN-No	3077
Class	9
Packaging group	III
EmS	6.1-04
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MEFENPYR-DIETHYL)

IATA

UN-No	3077
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MEFENPYR-DIETHYL)

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
- Mefenpyr-diethyl

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrases

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



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S-phrase(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/39	Wear suitable protective clothing and eye/face protection.
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate containment to avoid environmental contamination.

Exceptional labelling of special preparations

Restricted to professional users.

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

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 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.

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