

**MSM+PCS+MPR WG 4,5+6,75+9 W****U-EU**Version 6 / EU
1020000115641/7
Revision Date: 21.06.2007
Print Date: 26.01.2009**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	MSM+PCS+MPR WG 4,5+6,75+9 W	U-EU
Product code (UVP)	06352316	
Usage	Herbicide	
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein 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 eyes.

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)

contains Mesosulfuron-methyl (4,5 %), Propoxycarbazone-Sodium (6,8%), Mefenpyr-Diethyl (9%)

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Mesosulfuron-methyl	208465-21-8	N	R50/53	4,50
Propoxycarbazone-sodium	181274-15-7	N	R50/53	6,80
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn, N	R51/53, R65, R66	>= 10,00 - < 18,00
Alkylated naphthalene sulfonate, formaldehyde polymer, sodium salt		Xi	R36/38	>= 5,00 - < 15,00
Fatty alcohol polyglycol ether		Xn, N	R22, R41, R51/53	<= 1,00

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

4. FIRST AID MEASURES



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Inhalation

Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

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

Protect unharmed eye. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Rinse out mouth and give water in small sips to drink. Obtain medical attention.

Notes to Physician

Symptoms

Irritation

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.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry powder
Water
Foam
Carbon dioxide (CO₂)

Specific hazards during fire fighting

In the event of fire the following can be released:
carbon monoxide (CO)
nitrogen oxides (NO_x)
Sulphur oxides

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

Personal Precautions

Use personal protective equipment.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.
If the product contaminates rivers, lakes or drains inform respective authorities.

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- Use mechanical handling equipment.
- Avoid dust formation.
- 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
 - Ensure adequate ventilation.
- 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.
 - Keep away from direct sunlight.
- Advice on common storage
 - Keep away from food, drink and animal feedingstuffs.
- Storage stability

Storage period	24 Months
Storage temperature	20 - 30 °C
Other data	Storage temperature should ideally lie between 0 and 30 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.
- Suitable materials
 - Coextruded containers with an internal barrier layer made of polyamide (PA).
 - Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol copolymer (EVOH)
 - 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 instructions regarding wearing and maintenance. |
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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	Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	granular
Colour	brown
Odour	aromatic

Safety data

pH	8,0 - 9,0 at 10 % (20 °C)
Bulk Density	598 - 702 kg/m ³ at 20 °C
Explosivity	Not explosive
Dust content	almost dustfree

10. STABILITY AND REACTIVITY

Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions.
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11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 2.000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 0,995 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.

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Acute Dermal Toxicity	LD50 (rat) > 2.000 mg/kg
Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	Irritating to eyes. (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test

12. ECOLOGICAL INFORMATION

Biodegradability Not readily biodegradable.

Ecotoxicity effects

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 7,6 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 8,8 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) 3,9 mg/l Exposure time: 96 h
Toxicity to algae	EC50 (<i>Anabaena flos-aquae</i> (blue-green algae)) 22,2 mg/l Exposure time: 72 h
Toxicity to other organisms	LD50 (bees) > 453 µg/bee Exposure time: 2 d Non-hazardous for bees.

13. DISPOSAL CONSIDERATIONS**Product**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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.

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.

Do not use containers for other products.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

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UN-Number	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPOXYCARBAZONE-SODIUM, 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. (PROPOXYCARBAZONE-SODIUM, 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. (PROPOXYCARBAZONE-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.**

Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Propoxycarbazone-sodium
- Mesosulfuron-methyl

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrases)

R36	Irritating to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases)

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.



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Further information

WHO-classification: III (Slightly hazardous)

Major Accident Hazard
Legislation

Subjected to the "Disasters and Major Accidents Act".
96/82/EC
Annex I, list of dangerous substances, No. 9b

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 3:

R22	Harmful if swallowed.
R36/38	Irritating to eyes and 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.
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 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.