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

Product information

Product code (UVP) 06357164
Usage Herbicide
Company Bayer CropScience AG
Alfred-Nobel-Straße 50
40789 Monheim am Rhein
Germany
Telefax +49(0)2173-38-7394
Responsible Department Product Safety and Specification Management
+49(0)2173-38-3409/3189 (during business hours only)
Email: BCS-MSDS@bayer.com

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION

Classification in accordance with the EC directives 67/548/EEC or 1999/45/EC.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification in accordance with Regulation (EC) No 1272/2008.
Acute aquatic toxicity, Chronic aquatic toxicity: Category 1
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

2.2 LABELLING

Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.
Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:
- Propoxycarbazone-sodium

Symbol(s) N
R-phrase(s) R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

To avoid risks to man and the environment, comply with the instructions for use.
S-phrase(s)
S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate container to avoid environmental contamination.

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:
- Propoxycarbazone-sodium

Signal word:
Warning

Hazard statements
- H410 Very toxic to aquatic life with long lasting effects.
- EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements
- P501 Dispose of contents/container in accordance with local regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature
Water soluble granules (SG)
Propoxycarbazone-Sodium 70 % w/w

Hazardous components

R-phrase(s) according to EC directive 67/548/EEC
Hazard statements according to Regulation (EC) No. 1907/2006

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No. / EC-No.</th>
<th>Symbol(s)</th>
<th>R-phrase(s)</th>
<th>Pictogram</th>
<th>Hazard statements</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propoxycarbazone-sodium</td>
<td>181274-15-7</td>
<td>N</td>
<td>R50/53</td>
<td>H410</td>
<td></td>
<td>70,00</td>
</tr>
</tbody>
</table>

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice
Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation
Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center
Skin contact
Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion
Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately.

Notes to physician
Treatment
Treat symptomatically.
In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.
There is no specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards during firefighting
In the event of fire the following may be released:
Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide (CO)
Sulphur oxides
Nitrogen oxides (NOx)

Special protective equipment for fire-fighters
In the event of fire and/or explosion do not breathe fumes.
In the event of fire, wear self-contained breathing apparatus.

Further information
Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Avoid contact with spilled product or contaminated surfaces.
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. Clean contaminated floors and objects thoroughly, observing environmental regulations. 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
No special precautions required.

Storage
Requirements for storage areas and containers
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

Advice on common storage
Keep away from food, drink and animal feedingstuffs.

8. EXPOSURE CONTROLS/PERSOAL 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
No personal respiratory protective equipment normally required. 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.

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
Bayer CropScience
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

OLYMPUS SG70
Version 4 / EU
102000011542

OLYMPUS SG70
5/8
Revision Date: 03.02.2012
Print Date: 10.09.2012

Cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

Hygiene measures
- Avoid contact with skin, eyes and clothing.
- Keep working clothes separately.
- Wash hands before breaks and immediately after handling the product.
- Remove soiled clothing immediately and clean thoroughly before using again.
- Garments that cannot be cleaned must be destroyed (burnt).

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Fine granules</td>
</tr>
<tr>
<td>Colour</td>
<td>Tan</td>
</tr>
<tr>
<td>Odour</td>
<td>Weak, characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>7.5 - 9.0 at 1% (23 °C) (deionized water)</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>From 160 °C</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>The product is not highly flammable.</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>The product is not self-ignitable.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>570 - 670 kg/m³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Ca. 42 g/l measured at pH 7</td>
</tr>
<tr>
<td>Explosivity</td>
<td>Not explosive 92/69/EEC, A.14 / OECD 113</td>
</tr>
<tr>
<td>Dust content</td>
<td>Nearly dust-free</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- Thermal decomposition: > 175 °C, Heating rate: 3 K/min
  - Exothermic decomposition.

- 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) > 2.500 mg/kg  
Information given is based on data obtained from similar substances.

### Acute inhalation toxicity
LC50 (rat) > 4.995 mg/l  
Exposure time: 4 h  
Highest attainable concentration.  
Determined in the form of a respirable aerosol.  
Information given is based on data obtained from similar substances.

### Acute dermal toxicity
LD50 (rat) > 2.000 mg/kg  
Information given is based on data obtained from similar substances.

### Skin irritation
No skin irritation (rabbit)  
Information given is based on data obtained from similar substances.

### Eye irritation
No eye irritation (rabbit)  
Information given is based on data obtained from similar substances.

### Sensitisation
Non-sensitizing. (guinea pig)  
OECD Test Guideline 406, Buehler test  
Information given is based on data obtained from similar substances.

**Assessment repeated dose toxicity**
Propoxycarbazone-sodium did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**
Propoxycarbazone-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**
Propoxycarbazone-sodium was not carcinogenic in lifetime feeding studies in rats and mice.

**Assessment Toxicity to Reproduction**
Propoxycarbazone-sodium did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**
Propoxycarbazone-sodium did not cause developmental toxicity in rats. Propoxycarbazone-sodium caused developmental toxicity in rabbit only at dose levels toxic to the dams. The developmental effects seen with Propoxycarbazone-sodium are related to maternal toxicity.

## 12. ECOLOGICAL INFORMATION

### Biodegradability
Not readily biodegradable.

### Ecotoxicity effects

**Toxicity to fish**  
LC50 (Rainbow trout (Oncorhynchus mykiss)) > 77.6 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient.
13. DISPOSAL CONSIDERATIONS

**Product**
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**
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/ADN**
- UN-Number: 3077
- Labels: 9
- Packaging group: III
- Hazard no.: 90
- Environm. Hazardous Mark: YES
- Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPOXYCARBAZONE-SODIUM MIXTURE)
- Tunnel Code: E

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**IMDG**
- UN-Number: 3077
- Labels: 9
- Packaging group: III
- EmS: F-A, S-F
- Marine pollutant: YES
- Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPOXYCARBAZONE-SODIUM MIXTURE)

**IATA**
- UN-Number: 3077
15. REGULATORY INFORMATION

Further information
WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION

Further information
Text of R-phrases mentioned in Section 3
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of the hazard statements mentioned in Section 3
H410 Very toxic to aquatic life with long lasting effects.

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.

Reason for Revision: Section 11: Toxicological Information on STOT and CMR.

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