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

Product information

Trade name BAYCOR 25 WP
Product code (UVP) 00279412
Usage Fungicide
Company Bayer CropScience AG
Alfred-Nobel-Straße 50
40789 Monheim am Rhein
Germany
Telefax +49(0)2173-38-7394
Responsible Department Material and Transport Safety Management
+49(0)2173-38-3409/3189 (during business hours only)
Email: MSDS@bayercropscience.com
Emergency telephone number +49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature
Wettable powder (WP)
Bitertanol 25 %

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No. / EC-No.</th>
<th>Symbol(s)</th>
<th>R-phrase(s)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bitertanol</td>
<td>55179-31-2</td>
<td>N</td>
<td>R51/53</td>
<td>25,00</td>
</tr>
<tr>
<td>Methylene-linked condensation product of arylsulphonic, sodium salts</td>
<td>90387-57-8</td>
<td></td>
<td>R52/53</td>
<td>&gt; 1,00 - &lt; 25,00</td>
</tr>
<tr>
<td>Alkylaryl sulfonate</td>
<td>91078-64-7</td>
<td>Xn</td>
<td>R20/22, R38, R41</td>
<td>&gt;= 1,00 - &lt; 5,00</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
Call a physician or poison control center immediately. Move to fresh air. Keep patient warm and at rest.

Skin contact
Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.

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.

Ingestion
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.) Call a physician or poison control center immediately. Rinse mouth.

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.

5. FIRE-FIGHTING MEASURES

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

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 may be released:
- nitrogen oxides (NOx)
- Carbon monoxide (CO)
- Hydrogen cyanide (hydrocyanic acid)

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. Remove all sources of ignition. Use personal protective equipment.

Environmental precautions
Do not allow to get into surface water, drains and ground water.
Methods for cleaning up
- Sweep up or vacuum up spillage and collect in suitable container for disposal.
- Keep in suitable, closed containers for disposal.
- Clean contaminated floors and objects thoroughly, observing environmental regulations.

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
- Keep away from heat and sources of ignition.
- Dust may form explosive mixture in air.
- Take measures to prevent the build up of electrostatic charge.

Storage
Requirements for storage areas and containers
- Store in a place accessible by authorized persons only.
- 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
- min. -10 °C
- max. 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bitertanol</td>
<td>55179-31-2</td>
<td>0,3 mg/m3 (TWA)</td>
<td></td>
<td>OES BCS*</td>
</tr>
</tbody>
</table>

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

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
- If product is handled while not enclosed, and if contact may occur:
  - Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent.

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
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

Appearance
Form powder
Colour beige
Odour weak, characteristic

Safety data
pH 6,0 - 7,5 at 1 % (23 °C)

Dust Explosion Class capable of causing a dust explosion (modified Hartmann tube)

Water solubility dispersible

Impact Sensitivity not impact-sensitive

Combustion number CN3 Local combustion without spreading at 20 °C

10. STABILITY AND REACTIVITY

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) > 0,525 mg/l
Exposure time: 4 h
Determined in the form of a respirable aerosol.
Highest attainable concentration.

Acute dermal toxicity LD50 (rat) > 5.000 mg/kg
Skin irritation
No skin irritation (rabbit)
The value mentioned relates to the active ingredient.

Eye irritation
Slight irritant effect - does not require labelling. (rabbit)
The value mentioned relates to the active ingredient.

Sensitisation
Non-sensitizing.
OECD Test Guideline 406, Magnusson & Kligman test
The value mentioned relates to the active ingredient.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects
Toxicity to fish
LC50 (Rainbow trout (Oncorhynchus mykiss)) 2.14 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient.

Toxicity to aquatic invertebrates
EC50 (Water flea (Daphnia magna)) 4.46 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient.

Toxicity to aquatic plants
EC50 (Desmodesmus subspicatus) 6.52 mg/l
Growth rate; Exposure time: 72 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/ADNR
UN-Number 3077
Labels 9
Packaging group III
Hazard no. 90
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BITERTANOL 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  Marine Pollutant
Description of the goods  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BITERTANOL MIXTURE)

IATA
UN-Number  3077
Labels  9
Packaging group  III
Description of the goods  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BITERTANOL MIXTURE)

15. REGULATORY INFORMATION
Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.
Classification:
Classified as hazardous for supply/use.
Hazardous components which must be listed on the label:
• Bitertanol
Symbol(s)
N  Dangerous for the environment
R-phrase(s)
R51/53  Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
Exceptional labelling
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 3
R20/22  Harmful by inhalation and if swallowed.
R38  Irritating to skin.
R41  Risk of serious damage to eyes.
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.

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.