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

1.1 Identification of the substance or preparation

Product: DIFLUFENICAN 500 G/L SC
Synonyms: SEMPRA (UK: MAPP 13525)
Type: Formulated product

1.2 Use of the substance/ preparation

Herbicide

1.3 Company identification

Name: AgriChem B.V.
Address: Koopvaardijweg 9
Postal code: 4906 CV
Residence: Oosterhout
Country: the Netherlands
Telephone no: (++ 31) (0)162 431 931
Fax no: (++ 31) (0)162 456 797
e-Mail: info@agrichem.nl

1.4 Emergency telephone

In case of poisoning contact national or local poison information centre
(London telephone no. 01737 6359191)

2. COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS no</th>
<th>EINECS no</th>
<th>Percentage</th>
<th>Labeling</th>
<th>R phrases (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: DIFLUFENICAN</td>
<td>83164-33-4</td>
<td>42.3 %</td>
<td>52/53</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Complete text of R phrases: see chapter 16

3. HAZARDS IDENTIFICATION

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES

Eye contact

Rinse with plenty of water for at least 10 minutes. Flush away from the non-contaminated eye. In case of contact lenses: if these can be removed easily, remove lenses first and rinse afterwards. Consult a doctor.
Skin contact

Rinse skin with plenty of water or shower for at least 15 minutes. In the meantime remove contaminated clothes and shoes. Contact a doctor if symptoms appear.

After inhalation

Fresh air, rest. In case of symptoms, contact a doctor and show the label or packaging.

After ingestion

Rinse the mouth and give water to drink. Contact poison information centre to see if drinking a solution of active charcoal in water is recommended. Consult a doctor immediately.

Treatment

Pre-hospital: symptomatic treatment. Since up to now only results from animal studies are available and since no or almost no cases have been reported for men, an observation in the hospital is recommended. Contact the Poisons information centre for further information.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

All extinguishing media allowed.

Unsuitable extinguishing media

Special exposure hazards

Thermal decomposition products: oxides of carbon, nitrogen and sulfur.

Instructions

Wear suitable protective clothing. Take account of environmentally hazardous firefighting water.

Special protective equipment for firefighters

Heat/fire exposure: compressed air/oxygen apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal protection/precautions

Avoid contact with skin and eyes. Protective clothing.

Environmental precautions

Dam up the solid spill. Contain released substance, pump over in suitable containers. Prevent spreading in sewers.
Methods for cleaning up
Absorb with liquid-binding material (sand, sawdust, ...). Dispose of as chemical waste.

7. HANDLING AND STORAGE

7.1 Handling
Comply with the legal requirements. Do not discharge the waste into the drain.

7.2 Storage
Store at a cool, dry place. Store in original packaging. Keep away from combustible materials, heat, sparks and open flames.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Exposure limit values

<table>
<thead>
<tr>
<th></th>
<th>comp.</th>
<th>ppm</th>
<th>comp.</th>
<th>mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV - TWA:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls
SKIN PROTECTION
Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information
Form: Liquid
Odour: Chemical, not further characterised
Colour: White

9.2 Important health, safety and environmental information
pH: 8.1
   8.0  1 % dilution
Flash point: > 86 °C
Relative density: 1.18
Solubility: Water miscible
Viscosity: 40.18-48.77 mPa.s.
Surface tension: 37 mN/m
10. STABILITY AND REACTIVITY

10.1 Conditions to avoid
Stable at normal temperature and pressure.

10.2 Materials to avoid
Avoid contact with incompatible materials. Avoid heat, flames, sparks and other sources of ignition.

10.3 Hazardous decomposition products
Thermal decomposition products: oxides of carbon, nitrogen and sulfur.

11. TOXICOLOGICAL INFORMATION

LD50 oral rat: 
LD50 dermal rat: 
LD50 dermal rabbit: 
LC50 inhalation rat: 

No data available.

12. ECOLOGICAL INFORMATION

LC50 fish: >106.5 µg/L 
EC50 Daphnia: > 488.1 µg/l 
EC50 algae: 0.93-2.42 µg/l 
Oral toxicity bees: - 
Dermal toxicity bees: - 
No further information available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations. 
CONTAINER DISPOSAL 
Packaging should be disposed of at a special chemical waste disposal facility.

14. TRANSPORT INFORMATION

Hazard identification: 90 
UN no: 3082 
UN name: Road Environmentally hazardous substance, liquid, n.o.s. 
Class: 9 
Group: III 

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15. REGULATORY INFORMATION

Dangerous for the environment

Risk phrases:
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:
S2 Keep out of reach of children
S13 Keep away from food, drink and animal feeding stuffs
S20/21 When using do not eat, drink or smoke
S35 This material and its container must be disposed of in a safe way
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

The complete text of the R phrases mentioned in chapter 2:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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