

# MATERIAL SAFETY DATA SHEET



## LINURON 500 G/L SC

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

#### 1.1 Identification of the substance or preparation

Product: **LINURON 500 G/L SC**  
Synonyms: DATURA (UK: MAPP 14915)  
Type: Formulated product

#### 1.2 Use of the substance/preparation

Agricultural/horticultural herbicide

#### 1.3 Company/undertaking 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. HAZARDS IDENTIFICATION

R40 Limited evidence of a carcinogenic effect  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R61 May cause harm to the unborn child  
R62 Possible risk of impaired fertility

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name       | CAS no<br>EINECS no | Percentage | Labeling | R phrases (1)           |
|------------|---------------------|------------|----------|-------------------------|
| 1: LINURON | 330-55-2            | 42.46%     | T;N      | 22-40-48/22-50/53-61-62 |

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

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### 4. FIRST AID MEASURES

#### After inhalation

Remove the victim into fresh air. Artificial respiration may be necessary. Respiratory problems: consult a doctor/medical service.

#### Skin contact

Wash with water and soap. Remove clothing before washing. Contact a doctor if symptoms appear and show the label or the packaging.

#### Eye contact

Rinse immediately with plenty of water for 15 minutes. Take victim to an ophtalmologist if irritation persists.

#### After ingestion

Rinse the mouth and give water to drink. Do not make victim vomit. Consult a doctor/medical service if you feel unwell.

#### Treatment

Pre-hospital: symptomatic treatment. Contact the Poisons information centre for further treatment in the hospital.

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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Foam. Water spray. Carbon dioxide. ABC powder.

#### Unsuitable extinguishing media

High pressure water jet.

#### Special exposure hazards

On burning: release of toxic and/or irritating vapours may be possible.

#### Instructions

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

#### Special protective equipment for fire-fighters

Heat/fire exposure: compressed air/oxygen apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

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Protective clothing. Gloves. Face-shield/safety glasses.

### Environmental precautions

Prevent spreading in sewers. Prevent soil and water pollution. Dam up the solid spill.

### Methods for cleaning up

Absorb with liquid-binding material (sand, sawdust, ...). Scoop solid spill into closing containers. Dispose of as chemical waste. Wash clothing and equipment after handling.

## 7. HANDLING AND STORAGE

### 7.1 Handling

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

### 7.2 Storage

Meet the legal requirements. Keep only in the original container. Store at a cool, dry, well ventilated place. Keep locked up. Unauthorized persons are not admitted. Protect against frost. Keep out of direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

|                            | comp. | ppm | comp. | mg/m3 |
|----------------------------|-------|-----|-------|-------|
| Legal limit value TWA 8 h: |       |     |       |       |

### 8.2 Exposure controls

#### SKIN PROTECTION

Protective clothing. Chemical resistant boots.

#### HAND PROTECTION

Chemical resistant gloves.

#### EYE PROTECTION

Safety glasses/face-shield.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information

Form: Liquid (Suspension Concentrate)  
Odour: Chemical, not further characterised  
Colour: White

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### 9.2 Important health, safety and environmental information

|                           |                            |              |
|---------------------------|----------------------------|--------------|
| pH value:                 | 7.0-9.0                    | 1 % dilution |
| Flash point/flammability: | > 86 °C                    |              |
| Relative density:         | 1.1-1.2                    |              |
| Solubility:               | Water                      | miscible     |
| Viscosity:                | 100.1-122.9 mPa.s at 20 °C |              |
| Surface tension:          | 32 mN/m at 25°C            |              |

### 10. STABILITY AND REACTIVITY

#### 10.1 Conditions to avoid

Stable under normal conditions.

#### 10.2 Materials to avoid

oxidizing agents. (strong) acids. (strong) bases.

#### 10.3 Hazardous decomposition products

Can decompose at high temperatures forming toxic gases.

### 11. TOXICOLOGICAL INFORMATION

|                      |                          |
|----------------------|--------------------------|
| LD50 oral rat:       | > 2000 mg/kg body weight |
| LD50 dermal rat:     | > 4000 mg/kg body weight |
| LD50 dermal rabbit:  | -                        |
| LC50 inhalation rat: | -                        |

May have an effect on fertility. Non-irritating to skin (rabbit). Non-irritating to eyes (rabbits). No certainty about human carcinogenic properties.

### 12. ECOLOGICAL INFORMATION

|                       |                      |
|-----------------------|----------------------|
| LC50 fish:            | 10.9 mg/l            |
| EC50 <i>Daphnia</i> : | 6.37 mg/l            |
| EC50 algae:           | 100 µg/l             |
| Oral toxicity bees:   | > 78 µg linuron/bee  |
| Dermal toxicity bees: | > 100 µg linuron/bee |

Non-toxic to bees. Non-toxic to earthworms. Very toxic to aquatic organisms.

### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

#### CONTAINER DISPOSAL

Packaging should be disposed of at a special chemical waste disposal facility.

#### DISPOSAL METHODS

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Remove to an authorized incinerator equipped with an afterburner.

### 14. TRANSPORT INFORMATION

Hazard identification: 90  
UN no: 3082  
UN name: Inland navigation Environmentally hazardous substance, Liquid N.O.S.  
(contains linuron)  
Road Environmentally hazardous substance, Liquid N.O.S. (contains linuron)  
Air freight Environmentally hazardous substance, Liquid N.O.S. (contains linuron)  
IMDG Environmentally hazardous substance, Liquid N.O.S. (contains linuron)  
Rail Environmentally hazardous substance, Liquid N.O.S. (contains linuron)  
Class: 9  
Group: III  
Marine pollutant: P  
EMS number: F-A, S-F  
Label :



### 15. REGULATORY INFORMATION



Toxic



Dangerous for the environment

#### Risk phrases:

R40 Limited evidence of a carcinogenic effect  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R61 May cause harm to the unborn child  
R62 Possible risk of impaired fertility

#### Safety phrases:

S21 When using do not smoke  
S36/37 Wear suitable protective clothing and gloves.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S53 Avoid exposure-obtain special instructions before use.  
S35 This material and its container must be disposed of in a safe way.  
S57 Use appropriate containment to avoid environmental contamination

Included in the list of authorized active substances according to Directive 91/414/EEC.

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### 16. OTHER INFORMATION

The complete text of the R phrases mentioned in chapter 3:

- |        |   |
|--------|---|
| R22    | Harmful if swallowed  |
| R40    | Limited evidence of a carcinogenic effect   |
| R48/22 | Harmful: danger of serious damage to health by prolonged exposure if swallowed                  |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R61    | May cause harm to the unborn child  |
| R62    | Possible risk of impaired fertility   |

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