

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

**Product name** ROVER 500  
**Use** Fungicide.  
**Formulation** Suspension Concentrate  
**Supplier:** Sipcam UK Limited, 3a, The Barn, 27 Kneesworth Street, Royston SG8 5AB.  
**Emergency No** 01763 212100.

## 2. HAZARDS IDENTIFICATION

Classification of substance according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful



R20-40-37/38-41-43

N; Dangerous for the environment



R50/53:

**Additional information** For the wording of risk and safety phrases refer to section 15.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients (according to Directive 1999/45/EC)

	CAS/EINECS	R Phrases	%
chlorothalonil	1897-45-6 / 217-588-1	T+ R26; Xn R40; Xi R37-41; Xi R43; N R50/53	25-50%

**Additional information** For the wording of the listed risk phrases refer to section 16.

## 4. FIRST AID MEASURES

### General information:

Show this safety data sheet to the doctor.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

### After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness bring patient into stable side position for transport.

### After skin contact:

Instantly wash with water and soap and rinse thoroughly.

Instantly rinse with water.

### After eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor.

### After swallowing:

In case of persistent symptoms consult doctor.

### Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

### Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

## 5. FIRE FIGHTING MEASURES

### Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water jet.

Fight larger fires with water jet or alcohol-resistant foam.

### Special hazards arising from the substance or mixture

No further relevant information available.

### Protective equipment:

Put on breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Not required.

**Environmental precautions:**

Inform respective authorities in case product reaches water or sewage system.  
Dilute with much water. Do not allow to enter drainage system, surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections:**

See Section 7 for safe handling, 8 for personal protection equipment, 13 for disposal information

**7. HANDLING AND STORAGE****Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.

**Information about protection against explosions and fires:**

No special measures required.

**Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and containers:**

No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION****Components with limit values that require monitoring at the workplace:**

1897-45-6 chlorothalonil (50%)	TLV	5 mg/m <sup>3</sup>
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**Personal protective equipment**

The usual precautionary measures should be adhered to general rules for handling chemicals.  
Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

**Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**Protection of hands:**

Protective gloves.

**Eye protection:**

Tightly sealed safety glasses

**Body protection:**

Protective work clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance:****Melting point or range:**

Not determined

**Segregation coefficient:**

1.94 log POW

**Form:** Liquid**Boiling point or range:**

> 100°C

**Solvent content:**

Organic solvents: 0 %

**Colour:** Whitish**Flash point:**

Not applicable

**Odour:** Weak, characteristic**Self-Flammability:**

Product is not self-igniting.

**Solubility / Miscibility (water):**

Dispersible

**pH-value at 20°C:** 6-8**Danger of explosion:**

Product is not explosive.

**Density:** 1.24 g/cm<sup>3</sup>**10. REACTIVITY AND STABILITY**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.  
**Incompatible materials:** No further relevant information available.  
**Hazardous decomposition products:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

### LD/LC50 values that are relevant for classification:

Oral LD50 >4000 mg/kg (rat)	Dermal LD50 >2000 mg/kg (rat)	Inhalation LC50/4 h 1.26 mg/l (rat)
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**Skin Irritation:** Irritant to skin and mucous membranes

**Eye Irritation :** Irritant effect.

**Sensitisation:** Sensitization possible by skin contact.

## 12.ECOLOGICAL INFORMATION

### Aquatic toxicity (active ingredient):

EC 50: 0.24 mg/l (algae) LC 50: 0.23 mg/l (*daphnia magna*)

LC 50: 0.21 (96h) mg/l (carp)

**Note:** Very Toxic for fish

**Persistence and degradability:** No further relevant information available.

### Bioaccumulative potential :

1897-45-6 chlorothalonil 500 g/l - Kow logP 1.94 (partition n-octanol/water)

**Mobility in soil:** No further relevant information available.

**Notes:** Do not allow product to reach groundwater, water bodies or sewage system.

Danger to drinking water if small quantities leak into soil.

## 13. DISPOSAL

**Waste or used preparation:** Use specialist waste contractor in accordance with local regulations.

**Disposal of packaging:** Use specialist waste contractor in accordance with local regulations.

## 14. TRANSPORT

**UN-Number (ADR, IMDG, IATA)** 3082

### Proper shipping name(ADR, IMDG, IATA)

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorothalonil (ISO))

**Hazard class (ADR,IMDG, IATA):** Class 9 Miscellaneous Dangerous Goods

**Packing group (ADR, IMDG, IATA):** III

**Marine pollutant:** Yes

**Special marking (ADR):** Symbol (fish and tree)

**Special precautions (user)**

**Kemler Number:** 90

**EMS Number:** F-A,S-F

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

**Transport/Additional information:**

**ADR: Tunnel restriction code** D/E

## 15. REGULATORY INFORMATION

**Water Hazard Class:** Water danger class 3 (self assessment): extremely hazardous for water

**Hazard-determining components of labelling:** Chlorothalonil

### Symbol(s)

Xn Harmful

N Dangerous for the environment

### Risk (R) phrases:

20 Harmful by inhalation.

37/38 Irritating to respiratory system and skin.

40 Limited evidence of a carcinogenic effect.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety (S) phrases:

2 Keep out of reach of children

13 Keep away from food, drink and animal feedingstuffs.

23 Do not breathe spray.

24/25 Avoid contact with skin and eyes.

- |       |   |
|-------|---|
| 26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| 36/37 | Wear suitable protective clothing and gloves.   |
| 45    | In case of accident or if you feel unwell, seek medical advice immediately (show the label).  |
| 61    | Avoid release to the environment. Refer to special instructions/safety data sheets.           |

This substance is not to be considered as persistent, bioaccumulative criterion and is not toxic (PBT).

## 16. OTHER INFORMATION

R Phrases referenced in section 3:

- |        |   |
|--------|---|
| R26    | Very toxic by inhalation.   |
| R37    | Irritating to respiratory system.   |
| R40    | Limited evidence of a carcinogenic effect.  |
| R41    | Risk of serious damage to eyes.   |
| R43    | May cause sensitisation by skin contact.  |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

*Prepared by Sipcarn UK Ltd to the best of our current knowledge and information:  
No responsibility is accepted that the information will be sufficient or correct in all cases.  
October 2011*