

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

**Product name** ROVER 500  
**Use** Fungicide.  
**Formulation** Suspension Concentrate  
**Supplier:** Sipcam UK Limited, 4c Archway House, The Lanterns, Melbourn Street, Royston SG7 8BX.  
**Emergency No** 01763 212100.

## 2. HAZARDS IDENTIFICATION

Classification of substance and mixture according to Regulation (EC) Number 1272/2008

### DANGER



H332	HARMFUL IF INHALED
H315	CAUSES SKIN IRRITATION
H318	CAUSES SERIOUS EYE DAMAGE
H317	MAY CAUSE AN ALLERGIC SKIN REACTION
H351	SUSPECTED OF CAUSING CANCER
H335	MAY CAUSE RESPIRATORY IRRITATION
H410	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Contains chlorothalonil. May produce an allergic reaction

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients (according to Regulation EC 1272/2008)

	CAS/EINECS	Hazard Statements	%
chlorothalonil	1897-45-6 / 217-588-1	H330, H351, H318, H317, H335 H400, H410	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:

If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### 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

<p><b>Suitable extinguishing agents</b>  CO<sub>2</sub>, extinguishing powder or water jet.  Fight larger fires with water jet or alcohol-resistant foam.  <b>Special hazards arising from the substance or mixture</b>  No further relevant information available.  <b>Protective equipment:</b>  Put on breathing apparatus.</p>		
<p><b>6. ACCIDENTAL RELEASE MEASURES</b></p>		
<p><b>Personal precautions, protective equipment and emergency procedures:</b>  Not required.  <b>Environmental precautions:</b>  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.  <b>Methods and material for containment and cleaning up:</b>  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.  <b>Reference to other sections:</b>  See Section 7 for safe handling, 8 for personal protection equipment, 13 for disposal information</p>		
<p><b>7. HANDLING AND STORAGE</b></p>		
<p><b>Precautions for safe handling</b>  Ensure good ventilation/exhaustion at the workplace.  Open and handle container with care.  <b>Information about protection against explosions and fires:</b>  No special measures required.  <b>Conditions for safe storage, including any incompatibilities</b>  <b>Storage</b>  <b>Requirements to be met by storerooms and containers:</b>  No special requirements.  <b>Information about storage in one common storage facility:</b> Not required.  <b>Further information about storage conditions:</b>  Keep container tightly sealed.</p>		
<p><b>8. EXPOSURE CONTROL / PERSONAL PROTECTION</b></p>		
<p><b>Components with limit values that require monitoring at the workplace:</b></p>		
1897-45-6 chlorothalonil (50%)	TLV	5 mg/m <sup>3</sup>
<p><b>Personal protective equipment</b>  The usual precautionary measures should be adhered for handling chemicals.  Avoid breathing spray  Do not get in eyes, on skin or on clothing  Wash hands and face thoroughly after handling  Wash all protective clothing thoroughly after use, especially the insides of gloves.  Wash splashes from skin or eyes immediately.  <b>Breathing equipment:</b>  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.</p>		
<b>Protection of hands:</b> Protective gloves.	<b>Eye protection:</b> Tightly sealed safety glasses	<b>Body protection:</b> Protective work clothing.
<p><b>9. PHYSICAL AND CHEMICAL PROPERTIES</b></p>		
<b>Appearance:</b>	<b>Melting point or range:</b> Not determined	<b>Segregation coefficient:</b> 1.94 log POW
<b>Form:</b> Liquid	<b>Boiling point or range:</b> > 100°C	<b>Solvent content:</b> Organic solvents: 0 %
<b>Colour:</b> Whitish	<b>Flash point:</b> Not applicable	

<b>Odour:</b> Weak, characteristic	<b>Self-Inflammability:</b> Product is not self-igniting.	<b>Solubility / Miscibility (water):</b> Dispersible
<b>pH-value at 20°C:</b> 6-8	<b>Danger of explosion:</b> Product is not explosive.	<b>Density:</b> 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:** This material and its container must be disposed of in a safe way.

Collect spillage

**Disposal of packaging:** Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

## 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

**Precautionary (P) statements:**

P261	Avoid breathing spray
P262	Do not get in eyes, on skin or on clothing
P264	Wash hands and face thoroughly after handling
P280	Wear gloves, protective clothing and eye/face protection
P305+P351+P338	IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P273	Avoid release to the environment
P391	Collect spillage
P501	Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste
SP1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads)
SPe3	To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies

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:

H330 Acute tox 2	Fatal if inhaled
H351 Carc 2	Suspected of causing cancer
H318 Eye Dam 1	Causes serious eye damage
H317 Skin sens 1	May cause an allergic skin reaction
H335 STOT SE 3	May cause respiratory irritation
H400 Aquatic acute 1	Very toxic to aquatic life
H410 Aquatic chronic 1	Very toxic to aquatic life with long lasting effects

*Prepared by Sipcam 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.  
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