

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

**Product name** BALLIOL  
**Use** Insecticide.  
**Formulation** Capsule Suspension  
**Supplier:** Sipcam UK Limited, 4C Archway House, Melbourn Street, Royston SG8 7BX.  
**Emergency No** 01763 212100.

## 2. HAZARDS IDENTIFICATION

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

WARNING



H302	Harmful if swallowed
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients (according to Regulation (EC) 1272/2008)

	CAS/EINECS	Hazard Phrases	%
<b>Lambda-cyhalothrin</b>	91465-08-6/415-130-7	H301, H311, H330, H400, H410	9.8%
<b>Solvent naphtha</b>	64742-94-5/265-198-5	H304, H411	16-18%

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

## 4. FIRST AID MEASURES

### General information:

Show this safety data sheet to the doctor.  
Remove any clothing soiled by the product.

### After inhalation:

Supply fresh air or oxygen; call for doctor.  
If breathing is irregular or stopped, administer artificial respiration.

### After skin contact:

Immediately wash with water and soap and rinse thoroughly.  
Take off all contaminated clothing.

### After eye contact:

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

### After swallowing:

In case of persistent symptoms consult doctor.  
If swallowed, do not induce vomiting, seek medical advice immediately, show label or container.

### Information for doctor:

No further relevant information available.

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

Skin contact paresthesia effects (itching, tingling) are transient, lasting up to 24 hours. Treat symptomatically.

## 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

Formation of toxic gases possible during heating or in fire: nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO)

**Protective equipment:**

Put on breathing apparatus.

**Additional Information:**

Cool endangered containers with water spray, Keep upwind.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment, Keep unprotected people away.

**Environmental precautions:**

Inform respective authorities in case product reaches water or sewage system.

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:**

Keep container tightly sealed. Store in cool, dry place. Store only in original container.

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

**Further information about storage conditions:**

Keep away from direct sunlight. Protect from frost.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Components with limit values that require monitoring at the workplace:** No data

Lambda-cyhalothrin	TWA (8h)	0.04 mg/m <sup>3</sup>
Solvent naphtha	TWA (8h)	15 ppm , 100 mg/m <sup>3</sup>

**Personal protective equipment**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

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:**

Breathing protection is recommended

<b>Protection of hands:</b> Protective gloves.	<b>Eye protection:</b> Safety glasses	<b>Body protection:</b> Protective work clothing.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	<b>Melting point or range:</b> Not determined	
<b>Form:</b> Liquid	<b>Boiling point or range:</b> Not determined	<b>Solvent content:</b> Organic solvents: 16-18 %
<b>Colour:</b> Light Ivory	<b>Flash point:</b> Auto ignition at 398°C	
<b>Odour:</b> Characteristic	<b>Self-Flammability:</b>	<b>Solubility / Miscibility (water):</b>

	Not flammable	Miscible in water
pH-value at 20°C: 7.1	<b>Danger of explosion:</b> Product is not explosive.	<b>Density:</b> 1.063 g/cm <sup>3</sup>

#### 10. REACTIVITY AND STABILITY

**Thermal decomposition / conditions to be avoided:** Combustion or thermal decomposition will evolve toxic or irritant vapours.

**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 <2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

Inhalation LC50/4 h > 1 mg/l (rat)

**Skin Irritation:** No irritant effect. May cause paresthesia.

**Eye Irritation :** No irritant effect.

**Sensitisation:** No sensitization effect known.

#### 12.ECOLOGICAL INFORMATION

##### Aquatic toxicity (formulated product):

EC 50: 21 mg/l (algae)

LC 50: 0.008 mg/l (*daphnia magna*)

LC 50 (96h): 0.02 mg/l (fish, rainbow trout)

**Persistence and degradability:** Not persistent in water, moderately persistent in soil.

##### Bioaccumulative potential :

Lambda cyhalothrin has the potential to bioaccumulate.

**Mobility in soil:** Immobile.

**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. Do not contaminate ponds, waterways and ditches with product or used container.

**Disposal of packaging:** Use specialist waste contractor in accordance with local regulations. Do not dispose in household garbage. Do not re-use empty containers

#### 14. TRANSPORT

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

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

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lambda-cyhalothrin (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

**Hazard-determining components of labelling:** Lambda-cyhalothrin

##### Precautionary (P) statements:

P261

Avoid breathing spray

P280

Wear gloves, protective clothing and eye/face protection

P304+P340	IF INHALED; Remove person to fresh air and keep at rest in a position comfortable for breathing.
P302+P352	IF ON SKIN; Wash with plenty of soap and water
P308+P313	IF exposed or concerned; Get medical advice/attention.
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

## 16. OTHER INFORMATION

H statements referenced in section 3:

H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	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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