

# SAFETY DATA SHEET

## According to Regulation (EC) No. 1907/2006 (REACH)

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

**Product Name:** Mouldcheck Sterilizer 2

**Use:** A Clear Microbicide based on benzalkonium chloride

**Supplier:** Biotech Environmental (UK) Limited  
Unit 1 Dunchideock Barton  
Dunchideock  
Exeter  
EX2 3UA

**Telephone:** +44 (0) 1392 832 270  
**Email:** Info@mouldtreatments.co.uk

### 2. HAZARDS IDENTIFICATION

**EC Classification:** R36/38: Irritating to eyes and skin.  
R50: Very toxic to aquatic organisms.



IRRITANT



Dangerous for the environment.

**Hazards:**  
Irritating to eyes and skin. May cause irritation to the respiratory system.

Very toxic to aquatic organisms.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Description:** A Clear Microbicide based on benzalkonium chloride

#### HAZARDOUS INGREDIENT(S)

Chemical Name:	CAS No.	EC No.	%W/W	EU Hazard Symbol	EU Risk Phrases
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	63449-41-2	264-151-6	1-10	C, N	R21/22, R34, R50
Propan-2-ol	67-63-0	200-661-7	1-5	F, Xi	R11, R36, R67
Biphenyl-2-ol	90-43-7	201-993-5	1-5	Xi, N	R36/37/38, R50

### 4. FIRST AID MEASURES

**Ingestion:** Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. If symptoms develop, obtain medical attention.

**Inhalation:** Remove persons affected by vapour to fresh air. If symptoms develop, obtain medical attention.

**Skin Contact:** Remove contaminated clothing immediately. Wash skin with water. If symptoms persist, obtain medical attention.

**Eye Contact:** If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water spray, foam, dry powder or CO<sub>2</sub>.

**Unsuitable Extinguishing Media:** Do not use water jet.

**Fire Fighting Protective Equipment:** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**Other:** May decompose in a fire, giving off toxic and irritant vapours. Carbon monoxide, Carbon dioxide and Nitrogen oxides.

## 6. ACCIDENTAL RELEASE MEASURES

Do not allow to enter drains, sewers or watercourses.

**Personal Protection:** Ensure adequate ventilation. Wear suitable protective clothing and gloves. Goggles giving complete protection to eyes.

**Methods for Cleaning Up:** Adsorb spillages onto sand, earth or any suitable adsorbent material. Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor. Subsequently flush road with water.

## 7. HANDLING AND STORAGE

**Handling:** When using do not eat, drink or smoke. Avoid contact with skin and eyes.

**Process Hazards:** Irritating to eyes and skin.

**Storage:** Keep container tightly closed in a cool place. Keep container tightly closed and dry.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**General:** Ensure adequate ventilation.



**Respirators:** Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment.



**Eye Protection:** Goggles giving complete protection to eyes.



**Gloves:** Plastic or rubber gloves. DIN EN 374

**Environmental Exposure Controls:** Avoid release to the environment.

## Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Propan-2-ol	67-63-0	400	999	500	1250	EH40

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**pH (Value):** 7.0 +/- 0.5 (at 20°C)  
**Form:** Liquid.  
**Colour:** Colourless.  
**Odour:** Mild  
**Vapour Pressure (Pascal):** 23.0 (at 20°C)  
**Flash Point (°C):** N/A  
**Density (g/ml):** ca. 7.0 (at 20°C)  
**Solubility (Water):** Miscible.

## 10. STABILITY AND REACTIVITY

Stable under normal conditions.

**Hazardous Reactions:** None known.

**Incompatible materials and conditions:** Strong oxidising agents. Hydrolysed by strong acids and alkalis.

**Hazardous Decomposition Product(s):** May decompose in a fire, giving off toxic and irritant vapours. Carbon monoxide, Carbon dioxide and Nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

Propan-2-ol  
 Oral: LD50: 4570 mg/kg (rat)  
 Dermal: LD50: 13400 mg/kg (rab)  
 Inhalative: LC50/4 h: 30 mg/l (rat)  
 Biphenyl-2-ol  
 Oral: LD50: 2980 mg/kg (rat)  
 Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides  
 Oral: LD50: 240 mg/kg (rat)

**Inhalation:** May cause irritation to the respiratory system.

**Ingestion:** Ingestion may cause irritation of the gastrointestinal tract.

**Skin Contact:** Irritant.

**Eye Contact:** Irritating to eyes.

## 12. ECOLOGICAL INFORMATION

Avoid release to the environment.  
Very toxic to aquatic organisms.

<b>Environmental Fate and Distribution:</b>	The product has low potential for bioaccumulation.
<b>Persistence and Degradation:</b>	The product is biodegradable.
<b>Toxicity:</b>	<p>Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides  <math>EC_{50}/48</math> h 0.016 mg/l (Daphnia magna)  <math>IC_{50}/72</math> h 0.03 mg/l (Selenastrum capricornutum)  <math>LC_{50}/96</math> h 0.85 mg/l (Rainbow trout)</p> <p>Biphenyl-2-ol  <math>EC_{50}/48</math> h 1.5 mg/l (Daphnia magna)  <math>EC_{50}/72</math> h 0.98 mg/l Desmodesmus subspicatus  <math>LC_{50}/96</math> h 4 mg/l (Rainbow trout)</p>

## 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation. To be disposed of as hazardous waste.

Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor.

Do not empty into drains; dispose of this material and its container in a safe way.

**Recommended:** Clean container with water.

## 14. TRANSPORT INFORMATION

**Classification:**



<b>UN No.:</b>	3082
<b>Class:</b>	9
<b>UN Packing Group:</b>	III
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Contains: Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides

### Road/Rail

<b>ADR/RID Class:</b>	9
<b>HAZARDS IDENTIFICATION ADR/RID:</b>	90

### SEA

<b>: primary Class :</b>	9
<b>UN Packing Group Sea:</b>	III
<b>Marine Pollutant:</b>	No.
<b>IMDG EMS:</b>	F-A, S-F
<b>ICAO/IATA:</b>	
<b>: primary Class :</b>	9

## 15. REGULATORY INFORMATION

### European Regulations

**Trade name:** Mouldcheck Sterilizer 2

**Company Identification:** Biotech Environmental (UK) Limited



IRRITANT



Dangerous for the environment.

**Hazard Symbol:** Xi, N

**Risk Phrases:** R36/38: Irritating to eyes and skin.  
R50: Very toxic to aquatic organisms.

**Safety Phrases:** S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S57: Use appropriate container to avoid environmental contamination.  
S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

## 16. OTHER INFORMATION

### Risk Phrases:

C : Corrosive.

F : Highly flammable.

Xi : Irritant.

N : Dangerous for the environment.

R11: Highly flammable. R21/22: Harmful in contact with skin and if swallowed. R34: Causes burns. R36: Irritating to eyes. R36/37/38: Irritating to eyes, respiratory system and skin. R50: Very toxic to aquatic organisms. R67: Vapours may cause drowsiness and dizziness.

### Additional Information:

The data and advice given apply only when the product is used for the stated applications. The product is not sold as suitable for any other application. Use for other applications may give rise to risks not mentioned here, and advice should be sought from us.

For intended use and applications see the technical data sheet for the product.

If you have purchased the product for supply to a third party for use at work, it is your duty to ensure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees, and others who may be affected, of any hazards described in this sheet and of any precautions which should be taken.