

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006



**Bio-Rid**

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

**Product Name** Bio-Rid  
**Use** Disinfectant Concentrate  
**Registration :** n/a

**Company** 1env Solutions Ltd  
Unit 54 Tailors Court  
Temple Farm Ind Est  
Southend On Sea  
Essex  
SS2 5SX

**Telephone :** + 44 (0) 1702 617057  
**Fax :** + 44 (0) 1702 613765  
**Web** www.1env.co.uk  
**Emergency Telephone** + 44 (0) 1702 617057 (Office hours only)

## 2. HAZARDS IDENTIFICATION.

Risk advice to man and the environment

**Xi** - Irritating to eyes and skin.

**N** - Very toxic to aquatic organisms.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS.

**Chemical Nature** Aqueous Surfactant mixture concentrate

### Hazardous Components

Chemical Name	CAS No.	Symbol(s)	R-Phrase(s)	Conc. [%]
Alkyl Dimethyl Benzyl Ammonium chloride	68424-85-1	C, X, N	22, 34, 50	8.0

Full R-phrases are used in this section can be found in section 16.

## 4. FIRST AID MEASURES.

**General Advice** Remove all contaminated clothing immediately and launder or dispose of safely.

**Inhalation** Move to fresh air. Keep patient warm and at rest. If symptoms persist call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

<b>Skin Contact</b>	In case of skin contact, immediately wash with plenty of soap and water for at least 15 minutes. After skin contact, apply vitamin E or simple body milk. If symptoms persist call a physician.
<b>Ingestion</b>	Rinse mouth out and give water in small sips to drink. Do NOT induce vomiting. If swallowed seek medical advice immediately and show this container or label.
<b>Notes to Physician</b>	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Unsuitable Extinguishing Media

High volume water jet.

### Specific Hazards during Fire Fighting

Dangerous gases are evolved in the event of a fire.  
Heated containers may increase in pressure and may burst.

### Special Protective Equipment for Fire-Fighters

In the event of fire and/or explosion do not breathe fumes.  
In the event of fire wear self-contained breathing apparatus.

### Additional Information

Remove containers from areas of fire or cool to prevent pressure build up.  
Whenever possible, contain fire-fighting water by diking area with sand or earth.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Keep people away from and upwind of spill/leak.  
Avoid contact with spilled product or contaminated surfaces.  
When dealing with spillage wear appropriate PPE. (see section 8)  
When dealing with spillage do not eat, drink or smoke.

### Environmental Precautions

Do not allow to get into surface water, drains and ground water.  
If spillage enters drains leading to sewage works inform local water company immediately.  
If spillage enters rivers or water courses, inform the Environment Agency (emergency number 0800 807060).

### Clean Up Procedure

Soak up with inert absorbent material (eg sand, silica gel, binders).  
Keep in suitable closed containers for disposal. (see section 13)  
Clean floor with plenty of water.

---

## 7. HANDLING AND STORAGE

### Handling

No specific precautions required when handling unopened packs/containers. Follow relevant manual handling advice.  
Appropriate PPE should be worn when necessary.  
Do not eat drink or smoke when handling.  
Do not breathe spray mist.  
Avoid release into the environment.  
Empty containers may contain hazardous product residues.

**Storage**

Keep out of the reach of children.  
 Store only in original container, in a dry, cool and well ventilated place.  
 Keep away from direct sunlight.  
 Keep away from food drink and animal feedingstuffs.  
 Protect from frost.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Refer to COSHH assessment (**Control of substances Hazardous to Health (Amendment) Regulations 2004**). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer to COSHH Essentials.

Component	CAS No	Exposure Limits	Basis

**Monitoring**

If product contains component(s) with exposure limits, personal, workplace, atmospheric or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use protective respiratory equipment. Reference should be made to European standard EN689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Occupational Exposure**

If user operations generate dust, fumes, gas, vapour or mist use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended statutory limits.

**Hygiene Measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, drinking, smoking and using the lavatory at the end of a working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Respiratory Protection**

This product should not require respiratory protection if used in accordance with label.

**For emergency or other use :**

Use a properly fitted air purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Recommended : Full mask with ABEK Filter.

**Hand Protection**

This product should not require hand protection if used in accordance with label.

**For emergency or other use :**

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling the product if a risk assessment indicates this is necessary. Dispose of when contaminated inside or when perforated. Hands should be washed even after wearing gloves before eating, drinking, smoking or using the lavatory.

Recommended : Butyl rubber / nitrile gloves.

**Eye Protection**

This product should not require eye protection if used in accordance with label.

**For emergency or other use :**

Safety eyewear complying with an approved standard should be worn at all times when handling the product if a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended : Safety glasses with side shields.

**Skin protection**

This product should not require skin protection if used in accordance with label.

**For emergency or other use :**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended : Wear protective clothing

**Environmental Exposure**

Steps should be taken to ensure that this product is not released accidentally into the environment.

**For emergency or other use :**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>General</b>	<b>Appearance</b>	Clear liquid
	<b>Colour</b>	Colourless
	<b>Odour</b>	Characteristic
<b>Safety</b>	<b>pH</b>	@ 1% ~ 8.0
	<b>Density</b>	~ 1.000 g/ml @ 20°c
	<b>Water Solubility</b>	Completely soluble

---

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	This product is stable.
<b>Material to Avoid</b>	No specific data.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Hazardous Decomposition</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

---

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral Toxicity</b>	LD50 (rat)	>2000 mg/Kg *
<b>Acute Inhalation Toxicity</b>	LC50 (rat)	No data (4hour Exposure)
<b>Acute Dermal Toxicity</b>	LD50 (rat)	>2000 mg/Kg *
<b>Skin Irritation</b>		Irritating to skin.*
<b>Eye Irritation</b>		Irritating to eyes*.
<b>Sensitization</b>		This product is not expected to be sensitising.

**Other** \* - This product has not been tested, this data has been calculated.  
The surfactant complies with the biodegradability criteria as laid down in regulation (EC) No. 648/2004.

---

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	Bluegill Sunfish Bioconcentration factor (BCF)	No data
<b>Toxicity to Fish</b>	LC50 Exposure time : 96 hours	0.06mg/l
<b>Toxicity to Daphnia</b>	EC50 (Daphnia Magna) Exposure time : 48 hours	0.02mg/l
<b>Toxicity to Algae</b>	LC50 (Algae) Exposure time : 96 hours	0.85 mg/l
<b>Other</b>	This product has not been tested and the data is for ADBAC. However, this product is classified as Very toxic to aquatic organisms.	

---

## 13. DISPOSAL CONSIDERATIONS

The generation of all waste should be avoided or minimised wherever possible. Recycling should also be considered before the disposal of any waste  
Contaminated packaging and waste product must be disposed of via a licensed waste disposal contractor.  
Any disposal practice must be in compliance with local and national laws and regulations

Outer packaging	EWC code :	15 01 01	(Paper or cardboard)
Bottle	EWC code :	15 01 02	(Plastic)
Damaged or leaking Packaging	EWC code :	15 01 10*	(Contaminated packaging)
Liquid product	EWC code :		

---

## 14. TRANSPORT INFORMATION

### ADR/RID/ADNR

<b>UN Number</b>	<b>UN3082</b>
<b>ADR Class</b>	9
<b>Packaging Group</b>	III
<b>Hazard No</b>	90
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Alkyl Dimethyl Benzyl Ammonium chloride)

### IMDG

<b>UN Number</b>	<b>UN3082</b>
<b>ADR Class</b>	9
<b>Packaging Group</b>	III
<b>EmS</b>	F-A, S-F
<b>Marine Pollutant</b>	No
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Alkyl Dimethyl Benzyl Ammonium chloride)

### IATA

<b>UN Number</b>	<b>UN3082</b>
<b>ADR Class</b>	9
<b>Packaging Group</b>	III
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Alkyl Dimethyl Benzyl Ammonium chloride)

---

## 15. REGULATORY INFORMATION

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and taken into account the intended product use

### Hazard Symbol(s)



<b>Contains</b>	Alkyl Dimethyl Benzyl Ammonium chloride	
<b>Risk Phrases</b>	R36	Irritating to eyes.
	R38	Irritating to skin.
	R50	Very toxic to aquatic organisms.
<b>Safety Phrases</b>	S2	Keep out of the reach of children.
	S13	Keep away from food, drink and animal feedstuffs.
	S23	Do not breath spray mist.
	S25	Avoid contact with eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of soap and water.
	S29	Do not empty into drains.
	S35	This material and its container must be disposed of in a safe way.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
	S46	If swallowed seek medical advice immediately and show this container or label.
<b>V.O.C.content (EU)</b>	VOC (%w/w) :	

---

## 16. OTHER INFORMATION

### Full Text Classifications

R22 - Harmful if swallowed.  
R34 - Causes burns.  
R50 - Very toxic to aquatic organisms.

Use only in accordance with label instructions.

The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation.

The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the storage and transportation of the preparation. The information in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Enviroquest Group Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.