

# **SAFETY DATA SHEET**

## **Beta Concentrate**

### **1. Identification of the substance/mixture and of the company/undertaking**

#### 1.1. Product identifier:

Product code/part no.	Product identifier
ZSBTo6001	Beta Unit dose

Substance name: Beta Concentrate

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Surface disinfection

#### 1.3. Details of the supplier of the Safety Data Sheet

Manufacturer/supplier: Micronclean  
 Address: Roman Bank  
 Skegness  
 Lincolnshire  
 PE25 1SQ, UK

Email: enquiries@micronclean.co.uk  
 Tel/Fax: 0044 (0) 1754 767171

1.4. Emergency Telephone: 0044 (0) 1754 767171  
 Opening hours: Only available during office hours (GMT)  
 Other comments: Phone service available in English language

### **2. Hazards Identification**

#### 2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]  
 Skin Corr. 1A: H314; Aquatic chronic 1: H410

Most important adverse effects:

Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

Additional information:

For full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms: GHS05: Corrosion  
 GHS09: Environmental hazard



Signal word: DANGER

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Hazard statements:	H314: Causes severe skin burns and eye damage. H410: Very Toxic to aquatic life with long lasting effects.
Precautionary statements:	P260: Do not breathe vapour, mist or spray. P264: Wash hands thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. P301+330+331: IF SWALLOWED: Rinse mouth. Do not induce vomiting. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313: If eye irritation persists, seek medical attention. P363: Wash contaminated clothing before reuse. P501: Dispose of contents / container to hazardous or special waste collection point.

Supplemental Hazard information (EU): Not applicable.

### 2.3. Other hazards:

This product is not identified as a PBT/vPvB substance

### Emergency overview:

Clear, pale straw coloured liquid. Non-flammable and will not support combustion.

## 3. **Composition/information on ingredients**

### 3.1 General Description:

A blend of low foam, non-ionic surfactants, chelating agents and biocides, with or without fragrance and/or dye.

### 3.2. Hazardous ingredients

Component	CAS	EINECS	Content (% w/w)	CLASSIFICATION
2-Aminoethanol (monoethanolamine)	141-43-5	205-483-3	1-5	Acute Tox 4; H302, H312, H332 Skin Corr. 1B: H314 STOT SE 3: H335 Aquatic Chronic 3: H412
Didecyltrimethyl ammonium chloride	7173-51-5	230-525-2	1-5	Acute Tox. 3: H301 Skin Corr. 1A: H314 Aquatic Acute 1: H400
Propan-2-ol	67-63-0	200-661-7	0.5-2	Flam. Liq. 2: H225 Eye Irrit. 2: H319 STOT SE 3: H336
Potassium carbonate	548-08-7	209-529-3	0.5-3	Skin Irrit. 2: H315 Eye Irrit 2: H319 STOT SE 3: H335
Bis (3-aminopropyl) dodecylamine (N-(3- aminopropyl)-N-	2372-82-9	219-145-8	1-5	Acute Tox. 3: H301 Skin Corr. 1A: H314 STOT RE2: H373 Aquatic Acute 1: H400

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dodecyl propane-1,3-diamine)

Aquat Chronic 1; H410

### 3.3. Other Components

Components not listed at section 3.2 are either non-hazardous or present at levels below that requiring detailed disclosure. Common sense precautions should be observed during handling and use.

### 3.4. Ingredients according to EC Directive 648/2004 Annex VII (BPD)

Less than 5%: non-ionic emulsifier, alcohol, Polycarboxylate Didecylidimthyl Ammonium Chloride, and Bis (3-aminopropyl) dodecylamine disinfectants, Fragrance, dye.

## **4. First aid measures**

### 4.1. Description of first aid measures

General:	If you feel unwell seek medical advice (show this information or the container label where possible).
Eye:	Irrigate with flowing water for at least 15 minutes. Seek medical attention if irritation or soreness persists.
Skin:	After prolonged use, rinse affected area with water. In the unlikely event of irritation or soreness developing, seek medical advice. Launder contaminated clothing before re-use.
Ingestion:	<u>Do not induce vomiting</u> unless instructed to do so by medical personnel. Rinse mouth with water and drink 1 or 2 glasses of water or milk. Seek medical advice if discomfort persists.
Inhalation:	Remove from exposure. Keep warm and at rest. If discomfort persists seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed:

Skin contact:	Causes irritation and redness.
Eye contact:	Causes irritation, redness and non-reversible local damage if not immediately rinsed away after contact.
Ingestion:	Will irritate and cause soreness to mouth, throat and digestive system.
Inhalation:	Mist or spray may cause soreness and irritation of the mucous membrane and the respiratory system.

Delayed/immediate effects: No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physician: Treat by observation and supportive measures as indicated by the patient's condition. No specific antidote.

## **5. Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media:	Not applicable
Media to be avoided:	None

### 5.2. Special hazards present in the mixture

Special Hazards	No unusual fire or explosive hazards
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Hazardous combustion products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: oxides of carbon and nitrogen.

5.3. Advice for fire fighters:

Protective actions during firefighting: Keep people away. Isolate fire area and deny unnecessary entry. In the event of an adjacent fire, cool containers with water spray.

Special protective equipment: Wear protective clothing and self-contained breathing equipment.

### **6. Accidental release measures**

6.1. Personal protection, protective equipment and emergency procedures

Personal protection: Wear suitable protective clothing including eye protection, gloves and skin protection. Ensure adequate ventilation. Evacuate personnel (Large spillage).

6.2. Environmental precautions: Keep large spills out of sewers. If contamination of drainage systems or watercourses is unavoidable, immediately inform appropriate authorities. Small spills may however be safely flushed away to foul sewer with plenty of water.

6.3. Methods and material containment and cleaning up

Clean-up: Contain and absorb with inert material such as earth, sand or non- organic absorbent granules. Remove contaminated material to plastic containers and thence to safe location for subsequent disposal. Final traces or small spillages may be flushed away to foul sewer with water.

6.4. Reference to other sections:

For personal protection: see Section 8  
For waste disposal: see Section 13

### **7. Handling and storage**

7.1. Precautions for safe handling

Usage Precautions: Use only in accordance with label instructions in well ventilated areas. Do not return unused material to original container.

Advice on general hygiene: Avoid inhalation of mists or spray. Avoid prolonged contact with skin and eyes. Wear protective clothing.

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When using do not eat, drink or smoke. Wash promptly with soap and water if skin become contaminated.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage: Do not store containers in open sunshine and keep away from heat. Store at a temperature between 5°C and 35°C. Keep containers upright and closed when not in use. Keep away from incompatible materials (see section 10)

Packaging materials: Must only be kept in original packaging

## 8. **Exposure controls/personal protection**

### 8.1. Workplace exposure guidelines:

#### **2-Aminoethanol**

State	Component	LTE (8h TWA)	STE (15 Minute TWA)	Comment
UK HSE EH40	2- Aminoethanol	1ppm (2.5 mg/m <sup>3</sup> )	3ppm (7.6 mg/m <sup>3</sup> )	Contains Skin notation to warn of danger of skin adsorption Component present at <5% in concentrate and <0.3 in the working solution
UK HSE EH40	Propan-2-ol	400 ppm (999 mg/m <sup>3</sup> )	500 ppm (1250 mg/ m <sup>3</sup> )	

### 8.2. Exposure controls

Engineering controls: Good general ventilation should be sufficient for most conditions. Provision of appropriate exhaust ventilation is required when spray or mist is present.

Respiratory protection: Not normally required.

Skin protection: Use suitable protective clothing, gloves/coveralls, for periods of prolonged contact. PVC, Butyl or nitrile rubber gloves are suitable. Use aprons if splash protection is required during prolonged exposure.

Eye/face protection: Use chemical goggles or face shield if pressure washing or the risk of splashes is a concern. Eyewash stations should be provisioned.

Hygiene measures: When using, do not eat, drink, or smoke. Wash hands after use.

## 9. **Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance: Clear, colourless

Odour: Low odour

pH: 12.1 – 12.5

Relative Density: 1.02 g/m<sup>3</sup> @ 20°C

Solubility: Completely miscible

Partition coefficient: Not established

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Flammability: Not applicable  
Thermal decomposition temperature: Not established

9.2. Other information: No data available

### **10. Stability and reactivity**

10.1. Reactivity: Stable.  
10.2. Chemical stability: Stable under recommended storage and usage conditions.  
10.3. Possibility of hazardous reactions: No data available.  
10.4. Conditions to avoid: Avoid high temperatures, heat.  
10.5. Incompatible materials: Do not mix with strong acids, oxidising agents and other cleaning materials.  
10.6. Hazardous decomposition products: Does not decompose under normal use conditions.

### **11. Toxicological information**

11.1. Information on toxicological effects

#### **Hazardous ingredients:**

2-Aminoethanol	LD50 (rat, oral)	1720 mg/kg
	LD50 (rabbit, dermal)	>1200 mg/kg
	LD50 (rat, intravenous)	225 mg/kg
Didecyltrimethyl ammonium chloride	LD50 (rat, Intraperitoneal)	45 mg/kg
	LD50 (mouse, oral)	268 mg/kg
Potassium carbonate	LD50 (mouse, oral)	>2500 mg/kg
Bis (3-aminopropyl) dodecylamine	LD50 (rat, oral)	261 mg/kg
	LD50 (rat, dermal)	>600 mg/kg

**Mixture:** No significant health hazard when properly used for the application it was designed for.  
Not known to be a skin or respiratory sensitizer.

Routes of exposure: Dermal and eye contact  
Ingestion or inhalation

### **Ecological information**

12.1. Ecotoxicity:

2-Aminoethanol	EC50 (Daphnia, 48h)	65 mg/L
Didecyltrimethyl ammonium chloride	No Data	
Bis (3-aminopropyl)	EC50 (Daphnia, 48h)	0.073 mg/L
	LC50 (Rainbow Trout, 96h)	0.68 mg/L

12.2. Mobility: Miscible in water. No information on soil mobility.  
12.3. Persistence and degradability: Chelating agents are fully biodegradable according to appropriate OECD criteria. Main

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- concern is the high alkalinity of the product should it enter surface drains or rivers, etc. The surfactant(s) contained in this preparation comply with the biodegradability requirements as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product does not contain any substances that have potential for bioaccumulation. Does not contain any PBT or vPvB substances. No data available.
- 12.4. Bioaccumulative potential:
- 12.5. PBT and vPvB assessment
- 12.6. Other adverse effects:

### **13. Disposal considerations**

**General:** Do not discharge into surface drains, on the ground or into any body of water.  
**Disposal Methods:** All disposal methods must be in compliance with local laws and regulations (regulations may vary in different locations). Disposal of dilute solutions via the foul sewer will not cause any problems to waste treatment facilities.  
For unused and uncontaminated product, the preferred disposal options include sending to a licensed, permitted recycler or reclaimer.

### **14. Transport information**

Hazard Classification: Non-hazardous for transport.  
Environmental Hazard: Marine Pollutant  
Label for Carriage: None

### **15. Regulatory Information**

15.1. Safety, health and environmental regulations/legislation specific for the substance / mixture

Specific regulations: All components that make up this product are registered, or are not required to be listed, with:

- European Inventory of New and Existent Chemical Substances (EINECS)
- Toxic Substances Control Act (TSCA)
- REACH – Regulation 1907/2006/EC, the raw materials used within this preparation have been pre-registered in accordance with the requirements of REACH.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or mixture by the supplier.

### **16. Other information**

16.1. Other information

## **SAFETY DATA SHEET**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 2015/830.

Contact for enquiries: 0044 (0)1754 767377

Phrases used in s.3 and not given in s.2: None

### Abbreviations:

EC:	European Commission
EINECS:	European Inventory of Existing Commercial Substances
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
CAS:	Chemical Abstracts Service
GHS:	Global Harmonised System
OECD:	Organisation for Economic Cooperation and Development
TWA:	Time-Weighted Average
DNEL:	Derived No-Effect Level
PNEC:	Predicted No-Effect Concentration
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	Very Persistent, Very Bioaccumulative
HSE:	Health and Safety Executive
NIOSH:	Occupational Safety & Health Administration
OSHA:	National Institute for Occupational Safety and Health

### Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Issue 3: Hazard Information Updated, Ecological Information Updated.

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