

## STEREX PLUS

*Concentrated Bactericidal Liquid Disinfectant*

### FEATURES & APPLICATIONS

Sterex Plus is a concentrated bactericidal liquid disinfectant. Sterex Plus passes disinfectant suspension test based on EN 1276 (2009) at a dilution of 1 in 80 and contact time of 30 seconds. It is effective against *Escherichia Coli*, *Pseudomonas Aeruginosa*, *Staphylococcus Aureus* and *Enterococcus Hirae*. Sterex Plus finds application in the catering industry. In kitchens Sterex Plus will wash and reduce bacteria on dishes, glasses, food preparation surfaces etc.

### APPLICATION DETAILS

Task	Maximum Dilution	How To Use
Two stage process for effective disinfection of dishes, glasses etc.	1 in 80 with water (60ml per 5 litres)	<b>Stage 1:</b> Wash dishes as normal to remove visible dirt, food particles and debris on dishes with Rossapol, Sterex or Unibac following instructions on label. Rinse to remove all the detergent. <b>Stage 2:</b> Immerse items in the solution of Sterex Plus ensuring complete coverage of surface. Clean and leave for 30 seconds. Then rinse thoroughly with fresh clean water. Remove visible dirt and food particles. Apply diluted solution of Sterex Plus to surface with sponge or mop. Clean thoroughly and rinse with fresh water.
General Hard Surface Disinfection	1 in 80 with water (10ml per 750ml)	

Note: If using an Ounce-a-matic dispenser, one measure = 30ml

### PRODUCT AND PACKAGING INFORMATION

<b>Appearance &amp; Odour:</b>	Clear green liquid with slight odour.
<b>Chemical Description:</b>	An aqueous solution of surfactants, biocide, preservative and dye.
<b>Packaging:</b>	2 X 5 litres
<b>Shelf Life:</b>	2 years.

### ENVIRONMENTAL INFORMATION

**General Information:** This product is expected to have very little ecological impact.

#### Environmental Checklist:

Biodegradable detergents	Yes	CFC free	Yes	Solvent free	No
Phosphate free	Yes	Acid/alkali free	Yes	Free of dyes/perfumes	No
Recyclable packaging	Yes	Biodegradable container	No	Biodegradable outer box	Yes

FURTHER INFORMATION AVAILABLE ON REQUEST

# PRODUCT SAFE HANDLING SHEET UNICO

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

<b>Commercial Name</b> Intended/Recommended use	<b>Sterex Plus</b> Concentrated Disinfectant	<b>Supplier</b> Address	<b>Unico Ltd</b> North Main Street, Carronshore, Falkirk FK2 8HT 01324 573400 01324 573401
<b>Issue Date</b> <b>Issue Number</b>	<b>May'15</b> 3	<b>Telephone</b> <b>Fax</b>	

## 2. HAZARDS IDENTIFICATION

**2.1 Classification** This product has no classification according to Chemicals (Hazard Information Packaging and Supply) Regulations 2002.

This product has been reviewed with a view to being classified under EC 1272/2008. There is not sufficient evidence to warrant such classification but some precautions are included in this document. The major component is a

Physical and Chemical Hazards	Not Classified
Human Health	irritant properties
Environment	Acute & chronic marine toxicity

### 2.1 Label Elements



Signal Word  
Hazard Statements

**Warning**  
**H302** Harmful if swallowed  
**H312** Harmful if in contact with skin  
**H314** Causes skin burns & eye damage  
**H400** Very toxic to aquatic life  
**H412** Harmful to aquatic life with long lasting effects

Precautionary Statements

**P102** - Keep out of the Reach of Children  
**P103** - Please read the label information before use.  
**EUH 210** - Safety data sheet available on request.  
**P264** Wash thoroughly after handling  
**P302 +P352** IF ON SKIN: Wash with plenty of soap and water.  
**P332 + P313** If skin irritation occurs: Get medical advice/attention.  
**P305 +P351 +P338 IF IN EYES:** Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
**P301 +P330 +P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P281** Use personal protective equipment as required.  
**Wear eye piece protection** when handling concentrated product.  
**Rubber /impervious Gloves for skin protection.** When handling concentrated product

## 3. COMPOSITION OF PRODUCT AND INFORMATION ON INGREDIENTS

### 2.1 Mixtures

Concentrations below the concentration limit for classification in mixtures means that substance not reaching this does not need to be classified. Those that do not reach this concentration will still be included as indicative advice only.

Alkyl Dimethyl Benzyl Ammonium Chloride		2.5-3%%
CAS-No.: 68424-85-1	EC No.: 270-325-2	
Classification (EC 1272/2008)	Acute 4 – H312	Skin & Eye 1B – H314
Eye Damage 1 – H318	Acute 4 – H302	Acute Aqu. 1 – H400

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Alcohol Ethoxylate		1 – 3%	
CAS-No.: 68439-45-2	EC No.: 230-785-7		
Classification (EC 1272/2008) Eye Damage 2 – H318	Skin Irritant 2 – H315	Chronic Aq. 3 – H412 Acute Aq. 1 – H400	Acute oral / skin 4 – H302/312

<u>NAME</u>	<u>RANGE</u>	<u>EINECS</u>	<u>CAS No</u>	<u>Conc. Limit for Classification</u>
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The data available does not cover anything below 1% in this mixture

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- Ingestion**                      Drink a glass of water to dilute product. Do not induce vomiting. Act immediately to prevent further irritation of mouth, throat and stomach mucosa.
- Inhalation**                      If irritation is experienced go in open air and ventilate area. Mouth and throat to be rinsed thoroughly with water. Any irritation requires medical attention
- Eye Contact**                    Check for and remove contact lenses. Rinse thoroughly with plenty of water for several minutes. If reddening is evident continue rinsing while awaiting medical attention.
- Skin Contact**                    Rinse affected area with water, if needed apply a cold compress to relieve irritation.

### 4.2 Most Important symptoms and effects, both acute & chronic

Where irritation of tissue occurs, stinging and redden accompanied by some discomfort for a short period after exposure. No Chronic effects known

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

If irritation to the mouth, throat, stomach, skin, eyes or respiratory system occurs and doesn't subside within a few minutes after the first aid measures have been carried out, seek immediate medical advice and have this SDS or the product label to hand.

A cold compress can be used to alleviate skin irritation.

## 5. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media**                      This product is not flammable. Use fire extinguishing media appropriate for surrounding area.
- Unsuitable extinguishing media**                      Not applicable.
- 5.2 Special hazards arising from the substance or mixture**                      Fumes may contain poisonous oxides of carbon and nitrogen (CO<sub>x</sub> & NO<sub>x</sub>) if affected by fire.
- 5.3 Advice for firefighters**                              Use appropriate extinguishing media for fires in the area. Firefighters should wear self-contained breathing apparatus if heat generated breakdown products are likely to be present

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing and eyeshields. Ventilate the area

### 6.2 Environmental Precautions

Avoid spillage into surface water drains, soil / subsoil or vegetation.

### 6.3 Methods and material for containment and cleaning up

Hose away with plenty of water, diluting well, unless this would contaminate a water source or vegetation. In which case either collect, dilute as earlier and pour down waste drain (foul sewer) or absorb onto dry sand or similar material and dispose of safely as commercial waste.

## 7. HANDLING AND STORAGE

- 7.1 Handling**                      Take care when dispensing product from container and assure adequate ventilation and the use of PPE to protect eyes and skin. Avoid contact with skin and eyes. Do not mix with any other chemicals.

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**7.2 Storage** Store upright in original containers in a cool dry area out of the reach of children.

**7.3 Specific end use(s)** Use only as directed by the front page of this document and the product label

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

Name	STD	TWA – 8 Hrs	STEL – 15 Min	Comments

Note: No Substances above 1% in the product with a listed exposure limit

### 8.2 Exposure Control

**Respiratory Protection** Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear a facemask with a suitable filter.

**Skin Protection** Personal protection is required for the handling and use of the concentrate. Personal protection not normally required once diluted unless a risk assessment indicates the need for it .In which case wear protective overalls and safety shoes/boots.

**Eye Protection** Personal protection is required for the handling and use of the concentrate in the form of a face shield. Personal protection is not normally required unless a risk assessment indicates the need for it. Wear eyeshields.

**Hand Protection** Rubber or nitrile gloves required for concentrate handling & use. Same is recommended for use of the diluted product if the user has sensitive skin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Green Liquid	<b>Viscosity (20C)</b>	100-200 cp
<b>Odour</b>	Slight	<b>Water Solubility</b>	Soluble
<b>pH</b>	(Alkaline)	<b>Explosive Properties</b>	None
<b>Boiling Point</b>	~ 100 deg.C	<b>Vapour Pressure</b>	N/A
<b>Relative Density</b>	1.03		

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity** Is considered unreactive with normal use

**10.2 Chemical Stability** No stability concerns

**10.3 Hazardous Reactions** May be exothermic when in contact with acids

**10.4 Conditions to Avoid** Extreme heat or cold

**10.5 Incompatible Materials** None known.

**10.6 Hazardous decomposition products** None when handled and stored correctly.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Consideration is only given to components with greater than 1% based on the product formulation and those with a listed exposure limit in Section 8.

**Acute Toxicity – Corrosive to tissue and eyes. Very toxic to aquatic life**

Component	LD-50, Oral, mg/kg	LD-50, Skin mg/kg	LC-50 (Inhalation)	Chronic Consideration
Alcohol Ethoxylate	1000-2000 (rat)	1000-2000 (rabbit)	-	None known
Alkyl Dimethyl Benzyl Ammonium Chloride	305 (Rat)	930 (Rat)	54-510 mg/m <sup>3</sup> (IDLH)	None known

### Chronic Toxicity

**Carcinogenicity** There are no known carcinogenic chemicals in this product

**Sensitization** No information available.

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Target Organs** None known

**Endocrine Disruptor Info.** No information available.

**Other Adverse Effects** Alcohol Ethoxylate is above 0.1% concentration and therefore has to be classified and included due to its Acute Aquatic rating.

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The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity Ecotoxicity effects

Component	Toxicity to Fish LC-50, mg/l	Exposure Time, Hrs	Comments
Alcohol Ethoxylate	4.01 (Daphnia)	48	
Alkyl Dimethyl Benzyl Ammonium Chloride	0.28 (Fish)	-	Limited data

### 12.2 Persistence and Degradability

The components contained in this preparation are biodegradable

### 12.3 Bioaccumulation Potential

With the current information available, when used for its intended purpose this product will not cause adverse effects in the environment.

### 12.4 Mobility in soil

No information available

### 12.5 Aquatic Toxicity

With the current information available, this is rated as having Acute Toxicity potential but is close to the classification end point for the component that has this rating. Therefore the residual risk is judged to be low.

### 12.6 Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Discharge used working solutions to drain is acceptable in small amounts due to the dilution of running water by at least a factor of 10..

Concentrated product must be sent for disposal using a licensed waste disposal contractor.

Rinse out empty container with water and consign to normal waste. Washing must provide at least a 10 fold dilution of any material left in the container.

## 14. TRANSPORT

Not regulated for Transport

## 15. REGULATORY INFORMATION

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

#### EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

#### Guidance

Workplace Exposure Limits EH40.

The National Institute for Occupational Safety and Health (NIOSH) register of Immediately Dangerous to Life or Health Concentrations (IDLH)

## 16. OTHER INFORMATION

This product does not require any special training before use. Usage and handling instructions are mentioned on packaging and on the first page of this Safety Data Sheet. This health and safety information refers to the concentrated product and has been prepared assuming the intended described use is adhered to. Any unusual or novel use of this product is done without being assessed for the impact nor is it part of the considerations in this document.

Diluted solutions can be considered to be significantly less hazardous although they should always be handled with care.

#### Key literature references and sources for data

Safety Data Sheet, Misc. manufacturers.

CLP Classification - Table 3.1 List of harmonised classification and labelling of hazardous substances.

CHIP Classification - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

ECHA - C&L Inventory database.

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**Revision comments**

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

**Revision date** 01/05/2017

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

**Hazard statements in full****Hazard statements in full**

H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H314 Causes severe skin burns and eye damage  
H315 Causes skin irritation  
H318 Causes serious eye damage  
H335 May cause respiratory irritation  
H400 Very toxic to aquatic life  
H412 Harmful to aquatic life with long lasting effects.