

# SAFETY DATA SHEET



Trust Hygiene Services Limited

## 03001 – MACHINE STERILISER

### 1. IDENTIFICATION OF THE PREPARATION AND COMPANY

<b>PRODUCT CODE:</b>	03001		
<b>PRODUCT NAME:</b>	MACHINE STERILISER (Orange/B)		10 Ltrs
<b>DISTRIBUTOR:</b>	Trust Hygiene Services Limited Sutherland Avenue Wolverhampton West Midlands, WV2 2JH	Telephone: Fax: Email:	0370 3500 988 01902 872289 sales@trusthygiene.co.uk

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<b>CHEMICAL COMPOSITION:</b>	Preparation – Aqueous solution of sodium hypochlorite. (5-15%) Sodium hypochlorite. Formula: NaOCL. CAS No: 7681-52-9.
<b>RISK PHRASES:</b>	R31 – Contact with acids liberates toxic gas. R34 – Causes burns.
<b>CLASSIFICATION/SYMBOL:</b>	C – Corrosive.

### 3. HAZARDS IDENTIFICATION

The concentrated solution is corrosive and produces toxic chlorine in contact with acids.

### 4. FIRST AID MEASURES

<b>INHALATION:</b>	Remove to fresh air. Seek medical attention. (If the patient is affected by chlorine, this is toxic and requires urgent medical attention).
<b>INGESTION:</b>	If conscious, rinse mouth with water and give water or milk to drink. Seek urgent medical attention.
<b>SKIN:</b>	Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention.
<b>EYES:</b>	Immediately flush eyes with water for at least 15 minutes. Keep eyelids apart. Call doctor or transport to hospital.
<b>IMMEDIATE MEDICAL ADVICE:</b>	Symptomatic treatment and supportive therapy as indicated. Gastric lavage is contra- indicated following ingestion.

### 5. FIRE FIGHTING MEASURES

<b>SPECIAL FIRE/EXPLOSION HAZARD:</b>	Risk of drums bursting. Decomposition in a fire can evolve oxygen and enhance combustion of flammable materials.
<b>PRODUCTS OF COMBUSTION:</b>	Not combustible. Toxic fumes may be evolved.
<b>FIRE FIGHTING PROCEDURES:</b>	Keep containers cool with water spray. Wear S.C.B.A.

### 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PROTECTION:</b>	Wear goggles giving complete protection to eyes. Plastic gloves and boots. Eyewash facilities should be available.
<b>SPILL CLEAN UP METHODS:</b>	Flush away any residues with excess water.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Contain with inert material. Pump into a suitable container or otherwise absorb in sand. If substance has entered a water course or sewer or contaminated soil or vegetation, advise police.

### 7. HANDLING AND STORAGE

<b>USAGE PRECAUTIONS:</b>	- Technical Measures: Ventilation of the working place, local exhaust (in case of product decomposition). - Precautions: Avoid contact with eyes and skin. Wear personal protective equipment, maintain eye washer/ shower facilities. - Safe Handling Advice: Handle product with care and avoid contamination, set up safety procedures, do not transfer to another container (risk of decomposition).
<b>STORAGE PRECAUTIONS:</b>	- Storage Conditions: Store in a cool, clean, well ventilated area. Keep away from acids. - Packaging Materials: Bulk storage can be glass reinforced plastic tanks with a PVC lining, rubber lined mild steel or HDPE vessels. Apart from vent and overflow connections, storage tanks should be made for washing out the storage tanks with water to remove the sludge which accumulates over a period of time.

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Special Protective Measures

<b>RESPIRATORY:</b>	Ensure working room air concentrations are less than 0.5 ppm chlorine. S.C.B.A may be necessary if chlorine is evolved.
<b>HAND:</b>	Plastic gloves
<b>EYE:</b>	Goggle giving complete protection to eyes. If risk of splashing wear full face shield.
<b>SKIN:</b>	PVC apron
<b>EXPOSURE LIMITS:</b>	For chlorine: - 0.5 ppm (1.5 mg/ cu.m) 1 ppm (3 mg/ cu. m) . STEL.

**PROTECTIVE EQUIPMENT:**



## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Greenish/ Yellow Liquid
<b>ODOUR:</b>	Chlorine
<b>BOILING POINT (°C):</b>	110°C. (15%)
<b>FREEZING POINT (°C):</b>	minus 17°C
<b>pH:</b>	12
<b>SOLUBILITY IN WATER:</b>	Completely Miscible
<b>SOLUBILITY IN SOLVENTS:</b>	
<b>VAPOUR PRESSURE:</b>	
<b>DENSITY:</b>	1260 kg / cu.m.
<b>FLAMMABILITY:</b>	Not combustible. - Flash point: - Autoignition temperature: - Flammable limits: -

## **10. STABILITY AND REACTIVITY**

<b>STABILITY:</b>	Stable under normal temperature conditions.
<b>CONDITIONS / MATERIALS TO AVOID:</b>	Decomposed by acids releasing toxic chlorine
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Decomposition temperature and dangerous products released.

## **11. TOXICOLOGY INFORMATION**

<b>TOXICOLOGICAL DATA:</b>	LD50 orl . rat : 13 g/kg (5.25% sol) LD50 orl . rat : 5 g/kg (12.5% sol)
<b>INHALATION:</b>	Vapour containing chlorine or hypochlorous acid fumes (derived from hypochlorite under fire or acidic conditions) irritates the nose, throat and lungs causing coughing and other effects. There is little hazard from properly stored solution.
<b>INGESTION:</b>	Causes irritation and corrosion of the mucous membranes of the mouth and throat. Stomach pain and possible ulceration.
<b>SKIN CONTACT:</b>	Irritant causing reddening of the skin. Prolonged contact may result in dermatitis and sensitisation may occur.
<b>EYE CONTACT:</b>	Highly irritant with risk of serious eye damage unless removed quickly.

## **12. ECOLOGICAL INFORMATION**

<b>MOBILITY:</b>	Will disperse through aqueous systems.
<b>PERSISTENCE AND DEGRADABILITY:</b>	Will degrade.
<b>BIOACCUMULATIVE POTENTIAL:</b>	Not known
<b>ECOTOXICITY:</b>	Not known

## **13. DISPOSAL CONSIDERATIONS**

<b>DIPSOSAL OF PRODUCT:</b>	Dispose of through approved waste disposal operative.
<b>DISPOSAL OF PACKAGING:</b>	Flush out before recycling or scrapping.
<b>NATIONAL OR REGIONAL LEGISLATION:</b>	Classified as special waste for controlled disposal.

## **14. TRANSPORT INFORMATION**

### **UN No: 1791**

UK Road:

- Hazchem Code: 2X
- Classification: Corrosive substance
- Package Group: 11

### **RID-ADR:**

- Class: 8
- Label: Corrosive
- Material Code: 61 (c)
- KemmlerCode: 85

### **IMO:**

Class: 8  
Label Corrosive  
IMDG Page: 8186  
Packing Group: 11

### **MARPOL:**

Annex 11: C  
Cargo Name: Hypochlorite Solutions  
Annex 111: Not classified

### **ACAO:**

- Class: 8
- Label: Corrosive
- Packing Group: 11
- Passenger Flight: 819-5 L
- Cargo Flight: 821-60 L

## **15. REGULATORY INFORMATION**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994:

<b>EINECS NO:</b>	31- 668 -3
<b>INDEX NO:</b>	017-011-00-1
<b>RISK PHRASES:</b>	R31 Contact with acids liberates toxic gas. R34 Causes burns.
<b>SAFETY PHRASES:</b>	S28 After contact with skin. Wash immediately with plenty of soap and water. S45 In case of accident or if you feel unwell, seek medical advice immediately. (show the label where possible). S50 Do not mix with acids.
<b>CLASSIFICATION / SYMBOLS:</b>	C Corrosive
<b>EXPOSURE LIMITS:</b>	For chlorine: - 0.5 ppm (1.5 mg/cu.m). 1 ppm (3 mg/cu.m). STEL
<b>NATIONAL LEGISLATION:</b>	The following are some of the regulations which should be considered when dealing with this product: <ul style="list-style-type: none"><li>- Control of Pollution (Special Wastes) Regulations 1980.</li><li>- The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994.</li><li>- The Carriage of Dangerous Goods by Road and Rail (Classification, Packaging &amp; Labelling) Regulations 1994.</li><li>- Control of Pollution Act 1974.</li><li>- Dangerous Substances (Notification and Marketing of Sites) Regulations 1990.</li><li>- Environmental Protection Act 1990.</li><li>- Environmental Protection (Duty of Care) Regulations 1991.</li></ul>

## **16. OTHER INFORMATION**

### **USER NOTES:**

This information is given in good faith and is based on information and tests believed to be reliable. The suitability of this product for any particular use is not suggested or implied. This document is not a specification and properties shown are not guaranteed.

### **RECOMMENDED USES:**

Bleaching agent. Source of active Chlorine. Not supplied for use by the General public.

### **SOURCES OF DATA USED**

- Manufacturers data sheets
- National and international regulations.

### **TO COMPILE DATA SHEETS:**

### **DATE CREATED:**

January 2009