

MATERIAL SAFETY DATA SHEET

Date-Issued: 05.13.04
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Revision No: OR
Sterilox, DUWL Biocide

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sterilox, Dental Unit Water Line Biocide
GENERAL USE: Biocide
PRODUCT FORMULATION NAME: Sterilox
CHEMICAL FAMILY: Weak acid
GENERIC NAME: None

MANUFACTURER

Sterilox Technologies, Inc.
320 King of Prussia Road, Suite 200
Radnor, PA 19087

Customer Service: 610-341-1899

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency FAX: 610-341-0503
Tel: 610-341-1899

COMMENTS: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act.

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS Registry #</u>	<u>EINECS #</u>
Sodium chloride	0.42	7647-14-5	251-598-3
Hypochlorous acid / Sodium hypochlorite	0.022	7790-92-3 / 768152-9	232-232-5 / 231-668-3
Sodium chlorate	0.002	7775-09-9	231-887-4
Water	99.556	7732-18-5	231-791-2

COMMENTS:

Product composition ranges shown are typical values for health, safety and environmental use and are not intended as specifications.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Colourless, odourless liquid.

IMMEDIATE CONCERNS: No hazard expected under normal conditions of use.

4. FIRST AID MEASURES

EYES: Non irritating. Immediately flush eyes with plenty of water for several minutes.

SKIN: Non irritating. Remove affected clothing and wash skin with plenty of water.

INGESTION: Do not induce vomiting. Give plenty of water to drink. Seek medical attention if and effects occur.

INHALATION: Non irritating. Remove from further exposure. Seek medical attention if any effects occur.

5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: Not Available

FLAMMABLE CLASS: Nonflammable

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: Not Available

GENERAL HAZARD: Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

EXTINGUISHING MEDIA: Chemical Type Foam, Powder, Sand, Water Spray.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of chlorine.

FIRE FIGHTING PROCEDURES: This product is a nonflammable substance. However, hazardous decomposition and combustion products may be formed in a fire situation. Cool exposed containers with water spray to prevent overheating.

FIRE FIGHTING EQUIPMENT: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

SENSITIVE TO STATIC DISCHARGE: Not Available

SENSITIVITY TO IMPACT: Not Available

6. ACCIDENTAL RELEASE MEASURES

SPILLAGES:

Wash to waste with water.

7. HANDLING AND STORAGE

HANDLING:

No special precautions necessary.

STORAGE:

Store in sealed container between 5 and 40°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Wear safety glasses when handling this material; no other protective equipment necessary. Avoid prolonged contact with the skin. Use good personal hygiene practices.

No PEL's, TLV's or OEL's for this product or it's ingredients are listed in the current issue of ACGIH's Guide to Occupational Exposure Values nor have they been determined by the manufacturer.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Odorless

APPEARANCE: Clear liquid

COLOR: Colorless

pH: 5-7

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

FREEZING POINT: Not Available

MELTING POINT: 68°C (154.4°F)

SOLUBILITY IN WATER: Soluble

DENSITY: 0.9 g/ml at 20°C (68°F)

VISCOSITY: Not Available

MOLECULAR FORMULA: Not Available

MOLECULAR WEIGHT: Not Available

COEFF. OIL/WATER: Not Available

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Heat.

STABILITY: The product is stable under normal ambient conditions of temperature and pressure.

POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of chlorine; amine vapors.

INCOMPATIBLE MATERIALS: Strong Oxidizers : Alkalis

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: Not available

ORAL LD₅₀ (oral, rat): >5000 mg/kg

INHALATION LC₅₀: Not Available

EYE EFFECTS (rabbit): Negative.

SKIN EFFECTS (rabbit): Negative.
SENSITIZATION (guinea-pig): Negative
MUTAGENICITY (Ames test): Negative
REPRODUCTIVE EFFECTS: Not Available
TERATOGENIC EFFECTS: Not Available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Presents no hazard to the environment.

13. DISPOSAL CONSIDERATIONS

No special precautions are required for this product.

14. TRANSPORT INFORMATION

Not classified as hazardous for transportation per ASTM G31.42 testing.

15. REGULATORY INFORMATION

UNITED STATES

Not available.

CANADA

Not available.

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION

R31

EUROPEAN COMMUNITY REGULATORY: All intentional ingredients are listed on the European's EINECS Inventory.

STATE REGULATIONS

Not Available

REGULATIONS

LOCAL REGULATIONS: Not Available

This Safety Data Sheet does not constitute a workplace risk assessment. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.

16. OTHER INFORMATION

Sterilox is an aqueous solution of HOCl and Cl₂, intended for use as a biocide. Risk phase key R31 contact with acids liberates toxic gas.

MANUFACTURER DISCLAIMER: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.