

MATERIAL SAFETY DATA SHEET

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Sodium Chloride Solution

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sterilox Sodium Chloride Solution
GENERAL USE: Sterilox precursor
PRODUCT CODE: 6000-6003
PRODUCT FORMULATION NAME: Sodium Chloride Solution
CHEMICAL FAMILY: Salts
GENERIC NAME: Common Salt

MANUFACTURER

Various

MANUFACTURED FOR:

Sterilox Technologies, Inc
320 King of Prussia Road, Suite 200
Radnor, PA 19087
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	007647 14 5	2311-598-3
Sodium Hypochlorite (Bleach)	0.002	768152 9	
Water	99.578	7732 18 5	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Colorless or white.

IMMEDIATE CONCERNS: CAUTION! May cause eye and skin irritation. May cause digestive tract irritation with nausea, vomiting and diarrhoea.

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation to the eyes.

SKIN: May cause irritation to the skin.

INGESTION: Ingestion of large amounts may cause gastrointestinal irritation. Ingestion of large amounts may cause nausea and vomiting, rigidity or convulsions. Continued exposure can produce coma, dehydration and internal organ damage.

INHALATION: May cause irritation to the respiratory tract.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Redness and possible itching and/or tearing of the eyes.

SKIN: Redness and/or itching of the skin.

INGESTION: Possible nausea and/or vomiting.

INHALATION: Possible coughing, burning, tightness of chest and/or shortness of breath.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting upper and lower eyelids. Get medical attention.

SKIN: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash contaminated clothing and shoes before reuse.

INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Wash out mouth with water.

INHALATION: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: Not considered to be a fire hazard. (Non Flammable)

EXTINGUISHING MEDIA: N/A.

FIRE FIGHTING EQUIPMENT: This product may be used for extinguishing surrounding non electrical fire.

6. ACCIDENTAL RELEASE MEASURES

SPILL/LEAK:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Wear the appropriate personal protective equipment designated in Section 8.

7. HANDLING AND STORAGE

HANDLING:

Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Do not ingest or inhale.

STORAGE:

Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: General dilution ventilation is satisfactory health hazard control for this substance. Not expected to require any special ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields or goggles when handling this material.

SKIN: Wear appropriated gloves to prevent skin exposure.

CLOTHING: Wear appropriate protective clothing to minimize contact with skin.

RESPIRATORY: Not expected to require personal respiratory usage.

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: Colorless or white

pH: 7.0 – 8.0

VAPOR PRESSURE (mm Hg): 760

VAPOR DENSITY: Not Available

BOILING POINT: 101 deg C

FREEZING POINT: 0 deg C

MELTING POINT: N/A

SOLUBILITY IN WATER: Soluble

SPECIFIC DENSITY: 1.01

VISCOSITY: Not Available

MOLECULAR FORMULA: NaCl + Sodium Hypochlorite

MOLECULAR WEIGHT: xx.xxx

10. STABILITY AND REACTIVITY

STABLE: Stable under ordinary conditions of use and storage.

HAZARDOUS POLYMERIZATION: Has not been reported.

CONDITIONS TO AVOID: High Temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of sodium oxide.

INCOMPATIBLE MATERIALS: Reacts with nonnoble metals such as iron or steel, building materials such as cement, bromine, or trifluoride. Potentially explosive reaction with dichloromaleic anhydride + urea. Electrolysis of mixtures with nitrogen compounds may form explosive nitrogen trichloride

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: Not Available

ORAL LD₅₀: 3gm/kg (rat): 4gm/kg (mouse)

INHALATION LC₅₀: Not Available

EYE EFFECTS: May cause irritation to the eyes.

SKIN EFFECTS: Will remove the natural grease resulting in dryness, cracking and possibly dermatitis. Repeated and/or prolonged skin contact may cause irritation..

SENSITIZATION: Not Available

CARCINOGENICITY:

Listed by IARC - No

Listed by NTP - No

Listed by OSHA - No

Listed by ACGIH - No

Listed by NIOSH - No

MUTAGENICITY: Human mutation data reported.

REPRODUCTIVE EFFECTS: Human reproductive effects by intraplacental route: terminates pregnancy. Experimental reproductive effects.

TERATOGENIC EFFECTS: An experimental teratogen.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No information found.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Part.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

No information available.

CANADA TRANSPORT OF DANGEROUS GOODS

No information available.

EUROPEAN TRANSPORTATION:

Not classified as dangerous for transportation.

15. REGULATORY INFORMATION

UNITED STATES

TSCA

CAS# 7647-14-5 is listed on the TSCA inventory.

CAS# 1310-73-2 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7647-14-5: acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous

Substances under the CWA.

None of the chemicals in this product are listed as Priority

Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Sodium chloride is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:

None of the chemicals in this product are listed.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION: D2B

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): This product is WHMIS controlled.

CANADA INGREDIENT DISCLOSURE LIST: This product does not contain any known ingredient(s) on the "Ingredient Disclosure List".

EUROPEAN COMMUNITY

EUROPEAN COMMUNITY REGULATORY: All intentional ingredients are listed on the European's EINECS Inventory.
European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases: None

Safety Phrases: None

16. OTHER INFORMATION

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.