



Material Safety Data Sheet

SterilOx

November 2017

HMIS

Hazard Rating: Health = 0 Flammability = 0 Physical = 0 Reactivity = 0

Section I – General Information

Product Name:	SterilOx
Product Description:	Electro-chemically activated solution of sodium chloride (0.9% or less)
CAS#:	None (mixture)
Manufacturer:	SterilOx FZC

Section II – Composition and information on Ingredients

Component(s)	CAS#	%wt
Water	7732-18-5	>= 99%
Hypochlorous Acid	7790-92-3	<= 0.02%

The product contains no hazardous components.
The product contains 200±ppm Free Available Chlorine (FAC)
Toxicity and exposure limits to Chlorine:
TLV/TWA: 1ppm (3mg/cubic meter)
TLV/STEL: 3ppm (9 mg/cubic meter)
Acute Oral LD50 in rats g/kg 1.26 – 2.0
Dermal LD50 in rats g/kg 1.26-2.0

Section III – Physical and Chemical Properties

Physical State:	Liquid
Boiling Point (°C)	100°C
Melting Point/Range	NA



Flash Point (^o C)	NA
Vapor Pressure (mm Hg @ 20 ^o)	NA
Vapor Density (Air = 1)	ND
Specific Gravity (H ₂ O = 1)	1.00-1.06 g/ml)
Density:	8.34 lbs/gal
Appearance/Color/Odor:	Clear, with a faint chlorinous/ozonous odor
Solubility in Water:	Complete
Evaporation Rate:	Comparable to Water
pH:	7.2 +/- 0.5

Section IV – Fire and Explosive Hazard Information

Not flammable or explosive

Section V – Health Effects Information

Under normal use conditions the probability of any adverse health effect is low.	
Exposure Limits:	No exposure limits established for the product by ACGIH or OSHA
Skin Contact:	If irritation occurs, wash affected area with water
Eye Contact:	If irritation occurs, flush eyes with water
Ingestion:	Drink an 8 oz. Glass of water
Inhalation:	If breathing problems develop, move away from product and into fresh air
Medical conditions generally recognized as being aggravated by exposure to Product:	N/A
Primary route(s) of exposure:	Inhalation of product vapors or fumes is the most common route of exposure in occupational settings.
Development/Reproductive Toxicity:	No conclusion has been made based on Human and animal studies.
Carcinogenicity:	No conclusion on the carcinogenicity of chlorine has been made based on the limited information available from human and animal studies. Neither the product nor any of its constituents are listed in the latest NTP Annual Report on Carcinogens or has been found to be a potential carcinogen in the latest IARC Monograph or by OSHA
Cytogenecity:	Product does not possess cytogenetic activity based on the test results of chromosome induction operations in the bone marrow cells of mice.

Section VI – Reactivity Data

Stability:	Loses its level of available chlorine at high temperatures and when exposed to direct sunlight
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Conditions to avoid:	Avoid accidental or uncontrolled contact of product with acids and hydrogen peroxide
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will not occur

Section VII – Spill, Leak and Disposal Procedures

Product is $\leq 0.048\%$ sodium chloride (salt) and $\leq 0.02\%$ available chlorine. Some localities allow such concentration to be sent to open storm sewers; however, local environmental regulatory requirements should be followed. If desired, spills can be washed with plenty of water, or neutralized using sodium sulfite or sodium thiosulfate.

Section IX – Control Measures/Personal Protective Equipment

No personal protective equipment is required under normal conditions. The following suggestions should be considered in case of accidental chlorine release due to acidification.

Ventilation:	Open air or good room ventilation is normally adequate for the safe use of the product. Avoid breathing any vapors or fumes resulting from acid ventilation.
Respiratory Protection:	In accordance with OSHA regulations (29 CFR 1910.134 and 29 CFR 1910.1000) fogging or spraying applications may require worker respiratory protection, such as (1) NIOSH/MSHA approved air-purifying respirators, or (2) NIOSH/MSHA approved canister/cartridge facial respirators for chlorine/acid vapors.
Eye Protection:	Although Product is designed to be safe for eyes, good manufacturing and laboratory practices recommend the use of chemical safety goggles for all applications involving chemical handling.
Protective clothing:	Although product is designed to be safe for skin, good manufacturing and laboratory practice recommend that, at a minimum, rubber, neoprene, or other chemically impervious gloves be worn for all applications involving chemical handling.

Section IX – Transportation Information

OSHA Label:	None Required
DOT Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, RQ (if needed):	Not DOT Regulated, No DOT label required



Section X – Regulatory Information

OSHA Hazard Communication Standard:	This product is not a «Hazardous Chemical» as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200
Clean Air Act:	N/A
Product Label Text Hazard Information:	- Avoid contact with eyes and skin - Wash hands after handling product - Refer to MSDS - Keep out of Reach of Children

Section XI – Disclaimer

This Material Safety Data Sheet (MSDS) was prepared in accordance with the provisions and requirements of 29 CFR§ 1910.1200(g) and discloses the physical and health hazards of all hazardous chemicals contained in the product described in this MSDS, but unless otherwise noted, does NOT describe or disclose ALL of the chemicals/components in the product, some of which may be Trade Secrets.

The information included in this MSDS is based on data developed or compiled by SterilOx FZC from open literature, independent laboratory studies, and other available scientific evidence and is believed to be accurate and complete, but SterilOx FZC makes no warranty with respect thereto.

Neither does SterilOx FZC make any representation or warranty, express or implied, with respect to the Product or its suitability for any purpose or use, hereby disclaiming all such warranties, including the implied warranties of merchantability and fitness for a particular purpose and the implied warranty that the Product is free of claims of third persons by way of infringement or the like.

Anyone intending to use the Product described in this MSDS should satisfy himself that the Product

(1) is suitable for their particular purposes and intended uses, and (2) meets any safety and health standards applicable thereto. It is the obligation of each user of the Product described in the MSDS to determine and comply with the requirements of all statutes – local, state and federal – applicable to its use, storage and disposal.

Eng. **Dmitrii Khomenko**
COO
SterilOx FZC

Signature / Stamp: _____

