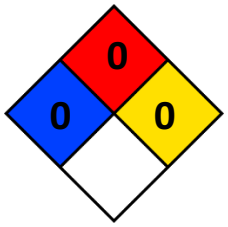
Safety Data Sheet
Material Safety Data Sheet

Sterify

HMIS Hazard Rating			
Health	Flammability	Physical	Reactivity
0	0	0	0



Section I – Identification

Product Name:	**Sterify**
Product Description:	Electro-chemically activated solution of sodium chloride (0.5% or less)
CAS#:	None (mixture)
Distributor:	RGS Sterilizers & Disinfectants Trading LLC ("**RGS**")
Phone No:	0097148840662
Preparation Date (latest revision Date):	July 7, 2020
Prepared by:	RGS Sterilizers & Disinfectants Trading LLC ("**RGS**")

COMMENTS: *This Safety Data Sheet is provided as general information for health and safety guidance.*
To the best of our knowledge the above product does not meet the definition of "Hazardous Chemical" as defined in the OSHA "Hazard Communication Standard" regulations.
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.

Section 2 – Hazard identification

HAZARDS DISCLOSURE: This product does not contain hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under SARA 311 and 312, this product contains no known hazardous materials. None of the ingredients are classified as Hazardous in the amounts present in the product. Under normal conditions of use the likelihood of any adverse health effects is minimal.

NOT HAZARDOUS to Humans and Animals

HMIS Rating - Health: 0; Flammability: 0; Reactivity: 0; Personal Protection Index: C
NFPA Rating - Health: 0; Flammability: 0; Reactivity: 0; Special Hazard: None
NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).
These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Immediate Concerns: No hazard expected under normal conditions of use
Physical Appearance: Clear, colorless liquid with slight chlorine odor
EMERGENCY OVERVIEW: Hazardous gas may evolve on contact with acid

Potential Health Effects:
Eye: No Hazards expected under normal conditions at room temperature.
Skin: No Hazards expected under normal use.
Ingestion: No Hazards expected under normal use.
Inhalation: No Hazards expected under normal conditions at room temperature. Vapors and/or aerosols which may be formed at abnormally elevated temperatures may be irritating to eyes and respiratory tract.
Carcinogenicity Information: No Known cancer Hazards.
Cytogenecity: Product does not possess cytogenetic activity based on the test results of chromosome induction operations in the bone marrow cells of mice.

Section 3 – Composition/Information on Ingredients

Components	CAS#	%wt
Water	7732-18-5	>= 99%
Hypochlorous Acid	7790-92-3	<= 0.02%
Sodium Chloride	7440-23-5	<= 0.5%

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

Section 4 – First aid measures

Eyes: Although this product is not known to cause eye irritation, if irritation occurs, flush eyes with water, seek medical advice if irritation develops or persists.

Skin: Although this product is not known to cause skin irritation, if irritation occurs, wash affected area with water, seek medical advice if irritation develops or persists.

Inhalation: Although this product is not known to cause respiratory problems, if breathing problems develop, move away from product and into fresh air, seek medical advice if breathing difficult develops or persists.

Ingestion: Although this product is not known to cause ingestion problems, if ingested, drink plenty of tap water. Seek medical advice if gastric distress develops.

Notes to Physician: Treat symptomatically and supportively.

Section 5 – Fire – Fighting measures

General Information: Substance is non-combustible. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Contact with metals may evolve flammable hydrogen gas.

Extinguishing Media: Use water spray to cool fire-exposed containers. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Flash Point: Not applicable. COC & TCC Flash Point: None

Autoignition Temperature: Not applicable.

Explosion Limits:
Lower: Not available.
Upper: Not available.

Section 6 – Accidental release measures

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid contact with acid and/or hydrogen peroxide, heavy metals, reducing agents, ammonia, ether

Section 7– Handling and Storage

Handling: No special precautions necessary or use with adequate ventilation.

Recommended Storage Temperature: Store at room temperature 20-25 deg C.

Storage: Store in original sealed container, at room temperature, away from direct sunlight and heat. Use within 30 days after opening. Do not allow to freeze.

Section 8 – Exposure Controls/Personal Protection

Exposure: No exposure limits established for the product by ACGIH or OSHA

Personal protection: 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 9 – Physical and Chemical Properties

Physical State: Liquid
Appearance: Colorless / clear
Odor: Minimal, Slight Hypocholrous odor

pH: 6.2-7.8
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.

Boiling Point: 100 °C
Freezing/Melting Point: 0 °C
Decomposition Temperature: Not available.
Solubility: Fully Soluble in Water.
Specific Gravity/Density: 1.00 – 1.06 g/ml

VOLATILE ORGANIC COMPOUNDS (VOCs) Content (Theoretical Percentage by Weight): 0% or (0 g/L)

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal ambient conditions of temperature and pressure. Discard any product older than 2 years.
Conditions to avoid: High temperatures, incompatible materials, avoid accidental or uncontrolled contact of product with acids and hydrogen peroxide
Incompatibilities with other materials:
DO NOT USE OR MIX WITH OTHER HOUSEHOLD CHEMICALS.

Hazardous Decomposition Products: None known
Hazardous Polymerization: Will not occur

Section 11 – Toxicological Information

The product contains no hazardous components.
The product contains 200±ppm Free Available Chlorine (FAC)

Toxicity and exposure limits to Chlorine:

TLV/TWA: 1 ppm (3 mg/cubic meter)
TLV/STEL: 3 ppm (9 mg/cubic meter)
Dermal LD_{50} in rats: 1.26 – 2.0 g/kg of body weight
Oral LD_{50} in rats: 1.26 – 2.0 g/kg of body weight
No known hazards in normal use.
Inhalation LC_{50}: Not available
Eye effects (rabbit): No known hazards in normal use.
Skin Effects (rabbit): No known hazards in normal use.
Sensitization (rabbit): No known hazards in normal use.
Mutagenicity (Ames test): No known hazards in normal use.
Reproductive Effects: Not Available
Teratogenic Effects: Not Available

Section 12 – Ecological information

Environmental Fate: No Information found
Environmental Toxicity: Not toxic
Biodegradability: 93.31%

Section 13 – Disposal Considerations

Product is <=0.048% sodium chloride (salt) and <= 0.02% available chlorine

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.

Section 14 – Regulatory information

Canada: Not available.
European Community EEC Label and Symbol Classification: R31
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: Not available.
Product Label Text Hazard Information:
Under normal usage conditions, the probability of any adverse health effect is extremely low.
For the safe and proper usage, please refer to the full user manual and the MSDS available on the website www.sterify.me

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 terms of safety requirements and does not signify any warranty with regard to the product's properties.

Section 15 – Other information

DISCLAIMER:

This Material Safety Data Sheet (SDS) 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 SDS, 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 SDS is based on data developed or compiled by RGS from open literature, independent laboratory studies, and other available scientific evidence and is believed to be accurate and complete, but RGS makes no warranty with respect thereto.

Neither does RGS 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.

As 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.

Anyone intending to use the Product described in this SDS 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 SDS to determine and comply with the requirements of all statutes – local, state and federal – applicable to its use, storage and disposal.