



PROTECTX HYDROLYTE

Safety Data Sheet

May 2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: Hydrolyte
Product Description: Electro-chemically activated solution of sodium chloride (0.9% or less)
CAS #: None (Mixture)

Distributor Details:

Supplier identification: ProtectX International
Address: 178 Long Leaf LN
Eatonton, GA 31024
Telephone: +1 (678) 331-5548
Website: www.protectxpro.com

For information on health hazards call: (843)390-7900
24 Hour Emergency Information call: (800) 349-8171
Chemtec Emergency Number: (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

Hydrolyte is not classified as hazardous for environment disinfectant use.

HMIS Hazard Rating:

Health = 0 Flammability = 0 Physical = 0 Reactivity = 0

0= Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

SECTION 3 : Composition/information on ingredients

Component(s)	CAS #	% wt
Water	None	≥99%
Hypochlorous acid	7790-92-3	≤0.05%

The Product contains no hazardous components.
The Product contains 500± ppm Free Available Chlorine (FAC).

SECTION 4 : First aid measures

Under normal use conditions the likelihood of any adverse health effect is low.

Inhalation: If breathing problems develop, move away from Product and into fresh air.

Skin Contact: If any irritation occurs, wash affected area with water.

Eye Contact: If irritation occurs, flush eyes with water.

Ingestion: Drink an 8 oz. glass full of water.

Exposure Limits: No exposure limits established for the Product by ACGIH or OSHA.

Medical conditions generally recognized as being aggravated by exposure to Product: NA

Primary route(s) of exposure: Inhalation of Product vapors or fumes is the most common route of exposure in occupational settings.

SECTION 5 : Firefighting measures

Not flammable or explosive.

Use fire extinguishing methods suitable to surrounding conditions

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions

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.

Environmental Precautions

Product is $\leq 0.9\%$ sodium chloride (salt) solution and $< 0.05\%$ available chlorine. Some localities allow such concentrations to be sent to open storm sewers; however local environmental regulatory requirements should be followed. If desired, spills can be washed to sewer with plenty of water, or neutralized using sodium sulfite or sodium thiosulfate.

SECTION 7: HANDLING AND STORAGE

Precautions and conditions for safe handling: No special requirements are necessary. Store according to package directions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: 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.

Personal Protective Equipment: No personal protective equipment is required under normal conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Boiling Point (°C):	100° C
Melting Point/Range:	NA	Flash Point (°C):	NA (Non flammable)
Vapor Pressure (mm Hg @ 20°):	Liquid	Vapor Density (Air = 1):	ND
Density:	8.34 lbs/gal	Specific Gravity H2O = 1):	1.00 – 1.06 g/ml
Solubility in Water:	Complete	Evaporation Rate:	Comparable to water
pH:	6.3 – 6.8	Appearance/Color/Odor:	Clear, with a faint chlorinous/ozonous odor

SECTION 10: STABILITY AND REACTIVITY

Stability: Loses its level of available chlorine at high temperatures and when exposed to direct sunlight.

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 11: TOXICOLOGICAL INFORMATION

Developmental/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.

Cytogenicity: Product does not possess cytogenetic activity based on the test results on chromosome induction operations in the bone marrow cells of mice.

Toxicity and exposure limits to Chlorine:

TLV/TWA: 1 ppm (3 mg/cubic meter)

TLV/STEL: 3 ppm (9 mg/cubic meter)

Acute Oral LD50 in rats g/kg 0.73;

Dermal LD50 in rats g/kg 1.26 – 2.0

SECTION 12: ECOLOGICAL INFORMATION

Product does not present adverse effects to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Packaging can be disposed of as local laws permit for a non-hazardous material.

SECTION 14: TRANSPORT 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 15: REGULATORY INFORMATION

TSCA No: All chemicals in this Product are listed on the EPA TSCA Inventory list.

CERCLA/SARA: This Product has been reviewed according to the EPA “Hazard Categories” promulgated under Section 311 and 312 of SARA. It does not fall in any listed category and poses no risk of immediate (acute) health hazard, delayed (chronic) health hazard, fire hazard, or sudden release of pressure and is not reactive (see 29 CFR § 1910.1200).

OSHA Hazard Communication Standard: This product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Clean Air Act: NA.

SECTION 16: OTHER INFORMATION

This 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 ProtectX International from open literature, independent laboratory studies, and other available scientific evidence and is believed to be accurate and complete, but ProtectX makes no warranty with respect thereto. **Neither does ProtectX International 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 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 this SDS to determine and comply with the requirements of all statutes – local, state and federal – applicable to its use, storage and disposal.

Symbols

ACGIH = American Conference of Governmental Industrial Hygienists

ASTMI = American Society for Testing and Materials International

CAS # = Chemical Abstracts Service Register number

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

CL = Ceiling Limit

IARC = International Agency for Research on Cancer

NIOSH = National Institute for Occupational Safety and Health Hygienists

NA = No Applicable Information

ND = Not Determined

NFPA = National Fire Protection Association

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

OSHA, TWA = Occupational Safety and Health Administration, Time Weighted Average

PMCC = Pensky - Martens Closed Cup Flash Point Determination

SARA = Superfund Amendment and Reauthorization Act of 1986

STEL = Short Term Exposure Limit

TCC = Tagliabue Closed Cup flash point determination

TLV = Threshold Limit Value

TWA = Time Weighted Average, 8 hours

Additional Information/Comments

Hydrolyte was designed to be a less hazardous product than others currently in use.

Preparation Date (or latest revision): May 1, 2020

Prepared by: ProtectX International