



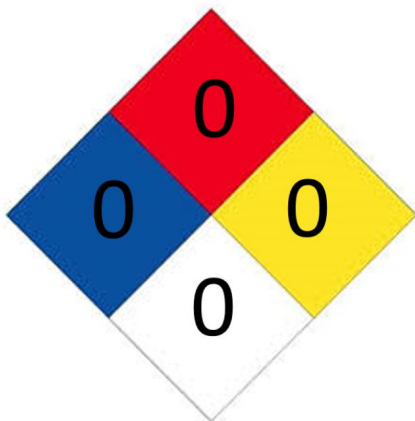
**Hypochlorous Solution**  
**450 to 550 ppm Free Available Chlorine Concentration**  
**Safety Data Sheet**

**Section 1: Identification**

- a. Product Name: Hypochlorous
- b. Common Name/Trade Name: Hypochlorous Acid, Electrolyzed Water
- c. Chemical Name: Hypochlorous Acid
- d. Chemical Formula: HOCl
- e. CAS#: 7790-92-3
- f. Manufacturer/Supplier: Sani-TEST LLC, 7911 7th Street, Slatington, Pennsylvania 18080
- g. Sani-TEST Emergency Phone Number: 800-732-7103
- h. Recommended Use: Cleaner, Deodorizer, Disinfectant
- i. Restrictions on Use: Do not mix with other chemicals, do not ingest

**Secton 2: Hazards Identification**

- a. Hazard Classification: This chemical is not identified as hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910 1200)
- b. Hazard Statement: This product contains no substances which, at their given concentration, are considered hazardous to health.
- c. Hazard Symbols:





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d. Precautionary Statements:

- a. Prevention: None
- b. Response: None
- c. Storage: None
- d. Disposal: None

e. Other Hazards Not Otherwise Classified: Do not drink, may cause upset stomach. Avoid prolonged (> 1 hour) prolonged wetness on skin.

f. 0% of the mixture consists of ingredients with unknown acute toxicity.

#### Section 3: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>Formula</u>	<u>CAS#</u>	<u>Composition Weight %)</u>
Water	H <sub>2</sub> O	7732-18-5	>99.4%
Sodium Chloride	NaCl	7647-14-5	<1.5%
Ethanoic Acid	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	64-19-7	<0.2%
Hypochlorous Acid	HOCl	7790-92-3	<0.004%

The product contains no substances which at their given concentration are hazardous to health.

#### Section 4: First Aid Measures

a. First Aid Instructions

- a. Eye contact: Although this product is not known to cause eye irritation, seek medical advice if irritation develops or persists.
- b. Skin contact: This product is not known to cause skin irritation when product is dried or allowed to dry on skin. Prolonged exposure to wetness from the product may irritate sensitive skin. In case of wetness from product on skin for more than 1 hour, remove clothing that is causing prolonged wetness on skin, wash affected skin with



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- water, and then dry affected area. Seek medical advice if irritation develops or persists.
- c. Inhalation: Although this product is not known to cause respiratory problems, seek medical advice if irritation to the nose, throat, or lungs develops or persists.
  - d. Ingestion: Although this product is not known to cause ingestion problems, if ingested, drink plenty of tap water. Seek medical advice if gastric irritation develops or persists.
- a. Most important symptoms or effects, acute or delayed: None known.
  - b. Recommendations for immediate medical care and special treatment: Physician should treat patient symptomatically.

#### **Section 5: Fire Fighting Measures**

- a. Suitable extinguishing equipment: Product is not flammable. If container catches use fire extinguisher to extinguish.
- b. Unsuitable extinguishing equipment: Product is not flammable. If container catches fire, water may be less efficient than using a fire extinguisher to extinguish.
- c. Explosion Data: Product is not flammable or explosive. Product is not sensitive to mechanical impact, nor is it sensitive to static discharge.
- d. Protective equipment and precautions for firefighters: As in many fires, wear self-contained breathing apparatus, pressure-demand MSHA/NIOSH approved (or equivalent) and full protective gear.

#### **Section 6: Accidental Release Measures**

- a. Personal Protective Equipment Required: None



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- e. Personal Precautions Required: Do not drink the product. Do not mix with any other chemicals.
- f. Emergency Procedures: None
- g. Containment Requirements: None
- h. Environmental Protections: None. Safe to discharge anywhere it is safe to discharge water into the environment.
- i. Clean-up Procedures: If spilled, clean up spilled liquid. Mop or absorb with inert materials such as cloths or paper towels. Cleaning materials may be disposed of in regular trash disposal. Recommend to finish cleaning with water.

#### **Section 7: Handling and Storage**

- a. Precautions for safe handling: Lift and handle in accordance with standard industrial hygiene and safety practices.
- j. Conditions for safe storage: Keep containers tightly closed. Store at room temperature, between 65 and 85 degrees Fahrenheit. Store in original sealed container or in sealed, opaque spray bottles. Keep away from direct sunlight and heat. Do not allow to freeze.
- k. Incompatible products: Avoid contact with acids or bases.

#### **Section 8: Exposure Controls/Personal Protection**

- a. OSHA Permissible Exposure Limits: This product, as supplied, does not contain any hazardous materials and does not have an occupational exposure limits established by any specific regulatory authority.
- l. Appropriate Engineering Controls: Effective ventilation systems, access to eyewash stations and emergency showers.
- m. Personal Protective Measures:
  - a. Eye and Face Protection: No special protective equipment required.



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- b. Skin and Body Protection: No special protective equipment required.
- c. Respiratory Protection: No special protective equipment required. If irritation is experienced or as required by local regulations, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
- d. Hygiene Measures: Handle in accordance with standard industrial hygiene and safety practices.

#### **Section 9: Physical and Chemical Properties**

- a. Physical State: Liquid
- n. Appearance: Clear
- o. Color: Clear, colorless
- p. Vapor Pressure: 17.5 mm Hg @ 20°C
- q. Odor: Slight hypochlorous odor
- r. Odor Threshold: 0.3 ppm
- s. Vapor Density: 0.017 g/l
- t. pH: 5.4 – 6.2
- u. Relative Density: 1.0
- v. Melting Point/Freezing Point: 0°C / 32°F
- w. Solubility: 29.3 g/100 ml 0°C
- x. Initial Boiling Point/Boiling Range: 100°C / 212°F
- y. Flash Point: 5001°C / 9034°F
- z. Evaporation Rate: No data available
- aa. Flammability: Product is not flammable. Product containers are flammable.
- bb. Partition Coefficient: n-octanol/water: None
- cc. Auto-ignition Temperature: No data available



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dd. Decomposition temperature: No data available

ee. Viscosity: 1.002 mPa at 20°C

### **Section 10: Stability and Reactivity**

- a. Reactivity: Reacts to kill various bacteria, viruses, mold, mildew, spores, allergens, and microorganisms. No other reactivity test data are available.
- ff. Chemical stability: Stable under normal ambient conditions of temperature and pressure. Hypochlorous acid degrades to harmless salt water with prolonged exposure to sunlight or to the atmosphere.
- gg. Possibility of Hazardous Reactions: None under normal storage and usage conditions.
- hh. Conditions to Avoid: Prolonged exposure to sunlight, prolonged exposure of an unsealed container to the atmosphere, freezing or high temperatures.
- ii. Incompatible Materials: Do not use or mix with ammonia, acids, bases, or other cleaning or disinfection chemicals.
- jj. Hazardous Decomposition Products: None at given pH and concentration of the product.

### **Section 11: Toxicological Information**

- a. Information on likely routes of exposure:
  - a. Inhalation: Although this product is not known to cause respiratory problems, seek medical advice if irritation to the nose, throat, or lungs develops or persists.
  - b. Ingestion: Although this product is not known to cause ingestion problems, if ingested, drink plenty of tap water. Seek medical advice if gastric irritation develops or persists.



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- c. Skin contact: Although this product is not known to cause skin irritation, seek medical advice if irritation develops or persists.
- d. Eye contact: Although this product is not known to cause eye irritation, seek medical advice if irritation develops or persists.
- c. Description of delayed, immediate or chronic effects from short- and long-term exposure: None, no information available.
- d. Numerical Measures of Toxicity: None
- e. Symptoms: None
- f. Chemical Listed in the National Toxicology Program Report on Carcinogens or in the International Agency for Research on Cancer Monographs or Found to be a Potential Carcinogen by OSHA: No

#### **Section 12: Ecological Information**

- a. Ecotoxicity: None found, not fully investigated.
- kk. Persistence and Degradability: Product degrades to harmless salt water solution. No information available regarding the product containers.
- ll. Bioaccumulation: No information available.
- mm. Other Adverse Effects: No information available

#### **Section 13: Disposal Considerations**

- a. No special precautions for disposal of the product. May be disposed in the municipal drain or on plants.
- nn. Follow local regulations for disposal of the container.

#### **Section 14: Transport Information**

- a. DOT Classification: No special precautions are required.
- oo. Identification: Not applicable
- pp. Special Provisions for Transport: Not applicable
- qq. DOT Pictograms: Not applicable



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**Section 15: Other Regulatory Information and Pictograms**

- a. United States Federal Regulations:
  - a. Health and Safety Reporting List: None of the chemicals are on the Health and Safety Reporting List.
  - b. 12b: None of the chemicals are listed under TSCA Section 12b
  - c. TSCA Significant New Use Rule: None of the chemical in this material have SNUR under TSCA
  - d. Clean Air Act: This material does not contain any hazardous air pollutants.
  - e. OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.
- g. Canada: This product does not contain any known ingredients on the "Ingredient Disclosure List."
- h. European Community Regulation: All intentional ingredients are listed on the European's EINECS Inventory.
- i. State Regulations: Not available.
- j. California Proposition 65 Warnings: This product does not contain any chemicals known to the state of California that cause cancer, birth defects, or any reproductive harm.
- k. Local Regulations: Not available.
- l. Other Regulations: OSHA – Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). To the best of our knowledge, this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200.91/155/EEC and Canadian Hazardous Products Act.
- m. Other Classifications:
  - a. WHMIS (Canada) – Not available
  - b. DSCL (EEC) – Not available





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- c. HMIS (U.S.A.) –
- d. WHMIS (Canada): This product does not contain any known ingredient(s) on the “Ingredient Disclosure List”.
- e. DSCL (Europe) – Pictograms: Not available
- f. TDG (Canada) – Pictograms: Not available
- g. ADR (Europe) – Pictograms: Not available
- h. Protective Equipment: None

#### **Section 16: Other Information**

- a. Date of SDS Preparation: October 9, 2020
- rr. Date of Last Revision: August 24, 2022