

# SAFETY DATA SHEET

Revision Date 29-Sep-2025

Version 1

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Hypochlorous Acid

### Other means of identification

**Product Code** HOCl-200

**Common Name/Trade Name** Hypochlorous Acid, Electrolyzed Water

**Chemical Name** Hypochlorous Acid

**Chemical Formula** HOCl

**CAS#** 7790-92-3

### Recommended use of the chemical and restrictions on use

**Recommended Use** Cleaner, Deodorizer, Disinfectant

**Uses advised against** Do not mix with other chemicals, do not ingest

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Sani-TEST LLC  
PO Box 361  
Perkasie, PA 18977

#### Emergency telephone number

**Company Phone Number** 800-732-7103

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

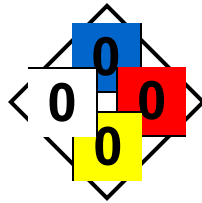
#### OSHA Regulatory Status

This chemical is not identified as hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

### Emergency Overview

This product contains no substances which, at their given concentration, are considered hazardous to health. This product is safe for contact with skin, eyes, and for use around children and pets.



**Appearance** Clear, colorless solution

**Physical state** Liquid

**Odor** Slight hypochlorous

#### Precautionary Statements - Prevention

Do not mix with other chemicals

Handle in accordance with standard industrial hygiene practices

#### Precautionary Statements - Response

IF IN EYES: This product is safe for eye contact. Optometrists use hypochlorous acid to clean eyes before procedures. Rinsing with water is optional if desired for comfort.

IF ON SKIN: This product is safe for skin contact and will not cause irritation. Rinsing is optional.

IF SWALLOWED: This product is non-toxic. If small amounts are accidentally ingested, no adverse effects are expected. Drink water if desired for comfort.

IF INHALED: This product does not produce harmful fumes. No adverse effects from normal use are expected.

#### Precautionary Statements - Storage

Store at temperatures between 45°F and 100°F (7°C and 38°C). Keep away from direct sunlight. Keep containers tightly closed. Do not allow to freeze.

#### Precautionary Statements - Disposal

May be safely disposed of in municipal drains or on plants, as product biodegrades to salt water. Follow local regulations for container disposal.

#### Hazards not otherwise classified (HNOC)

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

#### Other Information

- This product is naturally produced by the human immune system
- Safe to discharge anywhere it is safe to discharge water into the environment
- Non-toxic to humans, animals, and aquatic life
- Biodegrades to harmless salt water

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	weight-%
Water	7732-18-5	>99.69
Sodium Chloride	7647-14-5	<0.3
Ethanoic Acid (Acetic Acid)	64-19-7	<0.2
Hypochlorous Acid	7790-92-3	<0.0134

\*The product contains no substances which at their given concentration are hazardous to health. All ingredients are recognized as safe for their intended use.

**4. FIRST AID MEASURES****First aid measures****General advice**

This product is non-toxic and safe for contact with skin, eyes, and mucous membranes. No adverse health effects are expected from normal use or accidental exposure. The following information is provided for reference purposes. Have the product container, label, or SDS available when calling a poison control center or doctor if desired.

**Eye contact**

This product is safe for eye contact. Hypochlorous acid is used by optometrists to safely clean eyes before medical procedures. The solution will not cause eye irritation or damage. Rinsing with clean water is optional and may be done for comfort if desired, but is not medically necessary.

**Skin contact**

This product is safe for skin contact and will not cause irritation. Hypochlorous acid is naturally produced by the human body's immune system. The product is safe to remain on skin and will air dry without adverse effects. Washing with water is optional.

**Inhalation**

This product does not produce harmful vapors or fumes. No adverse respiratory effects are expected from normal use. No treatment is necessary.

**Ingestion**

This product is non-toxic if accidentally ingested in small amounts. Hypochlorous acid is approved by the FDA for use on food products and is safe for incidental ingestion. Drinking water is optional if desired for comfort, but no adverse gastric effects are expected.

**Most important symptoms and effects, both acute and delayed****Symptoms**

None. No adverse health effects are expected from exposure to this product under normal conditions of use.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

This product is non-toxic and non-irritating. No specific treatment is required for exposure. Product is naturally produced by human neutrophils as part of the immune response.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Product is not flammable. If container catches fire, use water or appropriate fire extinguisher.

### Unsuitable extinguishing media

None. Product is not flammable.

### Specific hazards arising from the chemical

Product is not flammable or explosive. Product is not sensitive to mechanical impact or static discharge.

### Hazardous combustion products

None.

### Explosion data

**Sensitivity to Mechanical Impact**     None.

**Sensitivity to Static Discharge**     None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**                     None required. Product is non-toxic and safe for skin contact.

**For emergency responders**             No special precautions required. Product is non-hazardous.

### Environmental precautions

**Environmental precautions**             None. Product biodegrades to harmless salt water. Safe to discharge anywhere it is safe to discharge water into the environment. Non-toxic to aquatic life.

### Methods and material for containment and cleaning up

**Methods for containment**                None required.

**Methods for cleaning up**                If spilled, clean up spilled liquid using standard methods. Mop or absorb with cloths or paper towels. Cleaning materials may be disposed of in regular trash. Product may be safely rinsed down drains with water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Product is safe for skin contact and poses no health hazards under normal handling conditions. Handle in accordance with standard industrial hygiene and safety practices. Do not mix with other chemicals.
<b>Conditions for safe storage, including any incompatibilities</b>	
<b>Storage Conditions</b>	Keep containers tightly closed. Store at temperatures between 45°F and 100°F (7°C and 38°C). Ideal storage temperature is approximately 45°F (7°C). Store in original sealed container or in sealed, opaque spray bottles. Keep away from direct sunlight and heat sources. Do not allow to freeze.
<b>Shelf Life</b>	Product has a 12-month shelf life once activated when stored under recommended conditions. Product can be reactivated after this period using appropriate electrolysis equipment.
<b>Incompatible materials</b>	Avoid contact with strong acids or strong bases. Do not mix with ammonia or other cleaning chemicals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

This product, as supplied, does not contain any hazardous materials and does not have occupational exposure limits established by any regulatory authority. Product is safe for routine exposure.

### Appropriate engineering controls

**Engineering Controls** No special engineering controls required. Standard workplace ventilation is sufficient.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No protective equipment required. Product is safe for eye contact.  
**Skin and body protection** No protective equipment required. Product is safe for skin contact.  
**Respiratory protection** No protective equipment required. Product does not produce harmful vapors or fumes.  
**General Hygiene Considerations** Product is safe for routine handling. Follow standard industrial hygiene practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Property	Values	Remarks • Method
Physical state	Liquid	
Appearance	Clear	
Color	Clear, colorless	
Odor	Slight hypochlorous odor	
Odor threshold	0.3 ppm	
pH	5.4 - 6.2	Optimal range for safety and efficacy
Melting point/freezing point	0 °C / 32 °F	
Boiling point / boiling range	100 °C / 212 °F	
Flash point	5001 °C / 9034 °F	
Evaporation rate	No data available	
Flammability (solid, gas)	Product is not flammable	
<b>Flammability Limit in Air</b>		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	17.5 mm Hg	
Vapor density	0.017 g/l	
Specific Gravity	1.0	
Water solubility	29.3 g/100 ml @ 0°C	
Solubility in other solvents	No data available	
Partition coefficient	n-octanol/water: None	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	1.002 mPa	
Explosive properties	No data available	
Oxidizing properties	No data available	

## 10. STABILITY AND REACTIVITY

### Reactivity

Product exhibits antimicrobial activity against bacteria, viruses, mold, mildew, spores, allergens, and microorganisms. This is the product's intended function and does not represent a safety hazard. No other reactivity concerns.

### Chemical stability

Stable under normal storage conditions. Product maintains efficacy for 12 months once activated when stored under recommended conditions (sealed containers, away from direct sunlight, at temperatures between 45°F and 100°F). Hypochlorous acid naturally degrades to harmless salt water with prolonged exposure to sunlight or air, which is environmentally beneficial. Product can be reactivated using appropriate electrolysis equipment after the 12-month period.

### Possibility of Hazardous Reactions

None under normal storage and usage conditions.

### Conditions to avoid

Prolonged exposure to direct sunlight (reduces product efficacy), prolonged exposure of unsealed containers to atmosphere (reduces product efficacy), freezing temperatures, or temperatures above 100°F (38°C).

**Incompatible materials**

Do not mix with ammonia, strong acids, strong bases, or other cleaning or disinfection chemicals.

**Hazardous Decomposition Products**

None. Product naturally degrades to water and salt under all conditions.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	This product does not produce harmful vapors or fumes. No adverse respiratory effects are expected from normal use. Hypochlorous acid is naturally produced by the human body.
<b>Eye contact</b>	This product is safe for eye contact. Hypochlorous acid is used safely by optometrists to clean eyes before medical procedures. No eye irritation or adverse effects are expected.
<b>Skin Contact</b>	This product is safe for skin contact. Hypochlorous acid is naturally produced by human white blood cells and is used in clinical wound care. No skin irritation or adverse effects are expected. Product is safe to air dry on skin.
<b>Ingestion</b>	This product is non-toxic if accidentally ingested in small amounts. Hypochlorous acid is FDA-approved for use on food products. No adverse gastric effects are expected from accidental ingestion.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hypochlorous Acid 7790-92-3	Non-toxic at use concentration	Non-toxic at use concentration	Non-toxic at use concentration

**Information on toxicological effects**

**Symptoms** None. No adverse health effects expected from exposure to this product.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	Not a sensitizer. Product is naturally produced by the human immune system.
<b>Germ cell mutagenicity</b>	Not mutagenic.
<b>Carcinogenicity</b>	Not carcinogenic. No carcinogenic substances present.

**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

<b>Reproductive toxicity</b>	Not a reproductive toxin.
<b>STOT - single exposure</b>	No target organ toxicity.
<b>STOT - repeated exposure</b>	No target organ toxicity.
<b>Aspiration hazard</b>	Not an aspiration hazard.

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity. All ingredients are known to be safe at use concentrations.



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Product is non-toxic to aquatic life and the environment. Product biodegrades to harmless salt water.

Chemical Name	Fish	Crustacea
Hypochlorous Acid 7790-92-3	Non-toxic at use concentration	Non-toxic at use concentration

### Persistence and degradability

Product readily biodegrades to harmless salt water solution. Environmentally friendly with no persistent residues. Product containers should be disposed of according to local regulations.

### Bioaccumulation

Chemical Name	Partition coefficient
Hypochlorous Acid - 7790-92-3	None - does not bioaccumulate

### Mobility

Readily soluble in water.

### Other adverse effects

None. Product is environmentally safe and biodegradable.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Disposal of wastes

No special precautions required for disposal of the product. Product may be safely disposed of in municipal drains. Product biodegrades to harmless salt water and may be safely disposed of on plants or landscape.

#### Contaminated packaging

Follow local regulations for disposal of containers.

**14. TRANSPORT INFORMATION****DOT**

<b>Classification</b>	No special precautions are required. Not regulated as a hazardous material.
<b>UN/ID No.</b>	Not applicable
<b>Proper shipping name</b>	Not applicable
<b>Hazard Class</b>	Not applicable
<b>Packing Group</b>	Not applicable

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
WHO Essential Medicines	Listed

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

WHO - World Health Organization

### US Federal Regulations

#### SARA 313

None of the chemicals are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

### US State Regulations

#### California Proposition 65

This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or any reproductive harm.

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
None of the chemicals in this product are on the right-to-know lists			

### U.S. EPA Label Information

EPA Registration Number 97801-1

FSIS Approved Uses - Electrolytically Generated Hypochlorous Acid

Application	Concentration Limit
Red meat carcasses (spray)	≤50 ppm FAC
Poultry carcasses (spray)	≤50 ppm FAC
Meat processing water	≤5 ppm FAC
Poultry processing water	≤50 ppm FAC
Poultry chiller water	≤50 ppm FAC
Poultry chiller red water	≤5 ppm FAC
Giblets and salvage parts	≤50 ppm FAC

FAC = Free Available Chlorine. This product at 163-200 ppm concentration must be diluted appropriately for specific FSIS-approved applications.

16. OTHER INFORMATION

NFPA	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties None
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HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection None required
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Prepared By	Technical Department
Issue Date	29-Sep-2025
Revision Date	29-Sep-2025
Version	1
Revision Note	Initial release in standardized SDS format with enhanced safety information.

### Additional Safety Information

This product contains hypochlorous acid, a naturally occurring molecule produced by the human immune system. Hypochlorous acid is recognized by regulatory agencies worldwide for its exceptional safety profile:

- Listed on the World Health Organization's Essential Medicines List
- FDA-approved for use on food products and in clinical applications
- EPA-registered as a surface disinfectant
- Used safely by optometrists for eye cleaning procedures
- Used in clinical wound care for over a century
- Safe for use around children, pets, and sensitive individuals
- Non-toxic to aquatic life and the environment
- Biodegrades to harmless salt water
- 12-month shelf life once activated when stored properly; can be reactivated

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed as guidance for safe handling, use, processing, storage, transportation, disposal and release. The product described in this SDS has been extensively studied and is recognized for its exceptional safety profile by multiple regulatory agencies including WHO, FDA, and EPA. At the concentration supplied (163-200 ppm), this product is non-toxic and safe for skin contact, eye contact, and poses no inhalation hazards under normal conditions of use. This safety profile applies to the product both in its concentrated form as supplied and at typical use dilutions.

**End of Safety Data Sheet**