

OSHA GHS SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier: Hypochlorous acid Solution (hydrolyzed from Sodium Dichloroisocyanurate Dihydrate)

Recommended use: Various residential, commercial and industrial applications

Restrictions on use: None known.

Manufacturer: ECA Water Systems,
LLC 115 Dansworth Lane
Oak Ridge, TN 37830

Telephone number: 1 865-207-6545

Emergency phone number: 1 865-207-6545 (9 AM – 5 PM, M-F)

2. HAZARD(S) IDENTIFICATION

Classification:

Physical	Health
Not Hazardous	Not Hazardous

OSHA/GHS Labeling: None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No	Concentration
Water	7732-18-5	>99.4%
Hypochlorous acid (hydrolyzed from Sodium Dichloroisocyanurate Dihydrate)	7790-92-3	<0.6%

4. FIRST-AID MEASURES

Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, seek medical attention.

Skin Contact: Wash thoroughly with water. Seek medical attention if irritation develops.

Eye Contact: Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops.

Ingestion: If large amounts are ingested, seek medical attention.

Most Important symptoms and effects, both acute and delayed: May cause mild eye and skin irritation.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention should not be required.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Use media suitable to for surrounding materials.

Specific hazards arising from the chemical: None expected.

Special protective equipment and precautions for fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Keep unnecessary personnel away. Wear appropriate protective clothing and equipment (see section 8). Avoid contact with eyes.

Environmental precautions: Avoid entry in storm sewers and waterways. Report spill as required by local and national regulations.

Methods and materials for containment and cleaning up: Collect spilled liquid with and absorbent material and place in a suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid eye contact. Avoid prolonged skin contact. Avoid breathing mist or spray. Wash exposed skin with soap and water after use.

Conditions for safe storage, including any incompatibilities: Store and handle in accordance with all current regulations and standards. Stable for up to 30 days after making. Discard after 30 days and make fresh solution.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Water	None Established
Hypochlorous acid	None Established

Appropriate Engineering Controls: Use in well-ventilated areas. Provide mechanical ventilation where excessive exposure concentrations may be generated.

Respiratory Protection: None required for normal use. If exposures are excessive, wear an approved respirator (mask). Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with all applicable regulations; and good Industrial Hygiene practice.

Hand Protection: None required for normal use. Wear appropriate chemical resistant gloves for prolonged skin contact.

Skin Protection: None required for normal use.

Eye Protection: Follow facility requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Odor:	Very slight chlorine
Odor Threshold:	Not determined
pH:	5-7

Melting/Freezing Point:	~0°C (~32°F)
Boiling Point:	~100°C (~212°F)
Flash Point:	Not applicable
Evaporation Rate: (n-butylacetate =1)	Not determined
% Volatile by Volume:	>99
Lower Flammability Limit: Upper Flammability Limit:	Not applicable
Vapor Pressure:	Not determined
Vapor Density(Air=1):	Not determined
Solubility:	Soluble in water
Autoignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Water like
Explosive Properties:	None
Oxidizing Properties:	Not determined
Specific Gravity (H₂O= 1):	1.00-1.08
Concentration	0-6000 ppm

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal temperatures and pressures.

Chemical Stability: Stable at normal temperatures and pressures.

Possibility of Hazardous Reactions: None expected.

Conditions to Avoid: None expected.

Incompatible Materials: Acids, reducing agents, ammonia, and urea.

Hazardous Decomposition Products: Chlorine and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute effects of exposure:

Inhalation: May cause mild irritation.

Ingestion: May cause gastrointestinal upset.

Skin contact: Repeated and prolonged skin contact may cause mild irritation. Not a skin sensitizer.

Eye contact: May cause mild irritation.

Chronic effects: None known

Carcinogenicity: None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA

Germ cell mutagenicity: Not mutagenic.

Reproductive Toxicity: No adverse effects on reproduction are known.

Numerical measures of toxicity:

Hypochlorous acid: Not acutely toxic

12. ECOLOGICAL INFORMATION

Ecotoxicity: May be harmful to aquatic organisms.

Persistence and degradability: This material is not biodegradable.

Bioaccumulative potential: This material is not bioaccumulative.

Mobility in soil: No data available.

Other adverse effect : This product is a (hydrolyzed solution from Sodium Dichloroisocyanurate Dihydrate).

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

This product is not regulated for transport.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable.
Transported in packaged form only.

Special precautions: None known

15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA: Not regulated.

SARA Hazard Category (311/312): Classified as per Section 2 of this SDS

SARA 313: Not regulated

EPA TSCA Inventory: All of the components are listed on the TSCA inventory.

CANADA:

Canadian CEPA: All components of this product are listed on either the DSL or the NDSL (7790-92-3 is listed on the NDSL).

16. OTHER INFORMATION

SDS Revision History: New SDS

Date of preparation: December 14, 2020

Date of previous revision: New SDS

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. ECA Water Systems, LLC shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.