SDS – SAFETY DATA SHEET

1. Identification

Product identifier: RTU OXCIDE ®+

Synonyms: Hypochlorous Acid Solution

Chemical Formula: HOCl

Recommended and Restriction Use of the Chemical:
OXCIDE® is an ANSI/NSF 60 certified water treatment chemical. It has numerous uses as deposition and scale control in greenhouse and nursery, food process, poultry, dairy and hospitality industry.

Supplier : Chem Fresh, Inc.
411 West Avenue, Merced, CA 95340
Phone: (818) 585 – 3960

Emergency Phone Number: 800-424-9300 (CHEMTREC 24-Hr Emergency within USA and Canada)

2. Hazard(s) Identification

Hazard Classification of the Chemical: Non-Flammable, Non-Toxic, Non-Corrosive

Signal Word: N/A

Hazard Statement(s):

- Contact of eye tissues with the liquid may cause slight irritation.
- Inhalation of high vapor concentrations may cause shortness of breath, irritation of mucous membranes.
- Ingestion of this material is expected to cause gastrointestinal irritation.

Pictogram: N/A

Precautionary Statements:

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Description of Any Hazards Not Otherwise Classified: Not applicable

3. Composition / Information on Ingredients

Chemical Name: Hypochlorous Acid Solution

Common name and synonyms: RTU OXCIDE ®+

CAS Number: 7790-92-3

Molecular Weight: 52.46 g/mol

Component	CAS Number	Percentage	Hazardous
Hypochlorous Acid	7790-92-3	.0005%-.002%	No
Water	7732-18-5	99.9998-99.9995%	No

4. First-Aid Measures

Inhalation:
If inhaled, remove to fresh to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen. Get medical attention.

Ingestion:
Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:
The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

Eye Contact:

Remove contact lenses. Flush eyes thoroughly with water for 15 minutes. If irritation persists, get medical attention.

5. Fire-Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Water, Carbon Dioxide, or other dry chemical firing fighting agents.

Special Information: N/A

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear appropriate personal protective equipment recommended in Section 8 (Exposure Controls/ Personal Protection) of this SDS.

Environmental Precautions, Methods, and Materials for Containment and Cleaning Up:
Remove to drain and flush spill area with copious amount of water.

7. Handling and Storage

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities:
Store and handle in accordance with all current regulations and standards. Keep in a properly labelled and tightly closed container. Store in a cool dry and well-ventilated area. Keep separated and do not contaminate product with incompatible substances (see Section 10). Avoid extensive inhalation of product vapors during handling.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits: N/A

Ventilation System: Use in adequate ventilation areas.

Personal Protective Equipment (PPE)

Eye Protection: Wear chemical safety googles where splashing of solution is possible.
Respiratory Protection: Not required.
Skin and Body Protection: Not required.

9. Physical and Chemical Properties

Appearance: Clear liquid

Upper / Lower Flammability or Explosive Limits: N/A

Odor: Slight Chlorine

Vapor Pressure: Same as water

Odor Threshold: No data available

Vapor Density: No data available

pH: 6.5 – 7.5

Relative Density: 8.5 lb/gal

Melting Point: No data available

Freezing Point: 32^{o}F

Solubility: Miscible

Boiling Point / Boiling Range: 212^{o}F

Flash Point: > 212^{o}F

Evaporation Rate: No data available

Flammability: Non-flammable

Partition Coefficient: n-octanol / water: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: > 212^{o}F

Viscosity: No data available

Specific Gravity: No data available

10. Stability and Reactivity

Reactivity: RTU OXCIDE ®+ is not reactive under normal pressure and temperature.

Chemical Stability: RTU OXCIDE ®+ is relatively stable at normal temperatures and storage conditions.

Possibility of Hazardous Reactions and Conditions to Avoid:

Avoid heat, freezing temperature, sunlight, ultraviolet, and contamination with foreign and/or incompatible materials.

Incompatible Materials:

Strong acids, strong oxidizing agents, and organic materials.

Hazardous Decomposition Products:
Hazardous decomposition of the product should not occur under normal use and storage condition. Hazardous decomposition products include oxides of Carbon, Nitrogen, and Sulfur.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Routes of Entry: inhalation, dermal, and eye.

Potential Health Effects: Contact of eye tissues with the liquid may cause slight irritation. Inhalation of high vapor concentrations may cause shortness of breath, irritation of mucous membranes. Ingestion of this material is expected to cause gastrointestinal irritation.

Carcinogenicity Information: None of the components present in this material are listed by IARC, NTP, OSHA as a carcinogen.

Acute Toxicity: No data available

12. Ecological Information

Ecotoxicity: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal Considerations

Disposal of the waste must be in accordance with all applicable Federal, State/Provincial, and Local regulations. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction. Waste materials should be reviewed to determine the applicable hazards.

14. Transport Information

DOT:

UN Proper Shipping Name: N/A

UN Number: N/A

Hazard Class/ Division: N/A

15. Regulatory Information

T.S.C.A Status: Listed.

16. Other Information

Prepared by: Chem Fresh, Inc.

Revision Date: June 10, 2015

Replaces Revision: August 25, 2011

HMIS: (Scale 0-4)

Health Rating: 0 **Flammability Rating:** 0 **Reactivity Rating:** 0

NFPA – Hazard Identification Ratings: (Scale 0-4)

Health Rating: 0 **Flammability Rating:** 0 **Reactivity Rating:** 0

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OSHA Standard 29 CFR 1910.1200 requires that information regarding hazards of the chemicals be provided to employees by means of a hazard communication program, including but not limited to chemical labeling, safety data sheets, training, and access to written records. It is your legal duty to make all information in this Safety Data Sheet available to your employees.

End of Safety Data Sheet