Safety Data Sheet

SDS# 001

Sodium Chlorite Solution 25%

Crystal Clear Lab™

Sodium Chlorite Solution 25%

SECTION 1: IDENTIFICATION

Product Identifier: Sodium Chlorite 25% Solution

Synonyms: Chlorous Acid, 25%, Sodium Chlorite Solution

Manufacturer: Crystal Clear Lab

Address: 13854 C Plaza, Omaha, NE 68144

Telephone Number: 531-867-7189

24-Hour Emergency Contact: 1-833-875-0643

Recommended Use: For the onsite generation of chlorine dioxide. Packaged in limited quantities for consumer household use.

Restrictions on Use: Use only as directed.

SECTION 2: HAZARD IDENTIFICATION

GHS Classification:

Acute Toxicity (Oral) – Category 4

Skin Corrosion/Irritation – Category 2

Serious Eye Irritation – Category 2A

Corrosive to Metals – Category 1

Label Elements:

Pictograms:



Signal Word: Warning

Hazard Statements: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May be corrosive to metals.

Precautionary Statements: Avoid eye contact; avoid prolonged skin contact; wash hands after handling. If in eyes: rinse with water. Store tightly closed. Dispose of contents per local regulations.

(See Sections 6, 7, 8, and 13 for detailed measures.)

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

All percentages are w/w

Component	CAS No.	Formula	Concentration
Sodium Chlorite	7758-19-2	$NaClO_2$	25%
Sodium Chloride	7647-14-5	NaCl	6%
Other Sodium Salts*	Mixture	N/A	.25%
Water	7732-18-5	H_2O	Remainder

**Includes trace amounts of Sodium Hydroxide, Sodium Carbonate, Sodium Sulfate, Sodium Chlorate, and Hydrogen Peroxide from production processes*

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Rinse thoroughly with water and mild soap. Remove contaminated clothing immediately.

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

Ingestion: Rinse mouth. Do NOT induce vomiting. Call poison control or doctor/physician if you feel unwell.

Note: *This product is packaged in limited quantities for consumer use. When used as directed, the amounts of reagents used as well as the chlorine gas released is minimal and not expected to be a hazard.*

SECTION 5: FIRE-FIGHTING MEASURES

Conditions Of Flammability: Does not burn, but combustibles wetted with this solution and subsequently dried are easily ignited and burn vigorously.

Means To Extinguish: Use extinguishing measures appropriate to the surrounding circumstances and environment.

Hazardous Combustion Products: None, does not burn.

Flash Point & Method: Not applicable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Auto-Ignition Temperature: Not applicable

Mechanical Impact Sensitivity: Not applicable (water solution)

Static Discharge Sensitivity: Not applicable (water solution)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Section 6(A): Bulk Storage and Workplace

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear protective clothing, gloves, and eye/face protection. Ensure adequate ventilation.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up: Contain spillage, and then collect with non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations.

**Caution: If solution residues dry on absorbent materials such as towels or paper, these materials may become a fire hazard if exposed to heat or open flame.*

Section 6(B): Consumer Quantities

Small Spills (4 oz or less): Wipe up with a damp cloth and rinse area with water.

Larger Spills: Dilute with excess water to minimize concentration. Absorb with inert material such as sand, earth, diatomaceous earth, or vermiculite.

If Using Cloth or Paper Towels: If cloth or paper towels are used to absorb the solution, rinse thoroughly with water before disposal.

Caution: If solution residues dry on absorbent materials such as towels or paper, these materials may become a fire hazard if exposed to heat or open flame.

SECTION 7: HANDLING AND STORAGE

Normal Consumer Use (dropper-scale): No special PPE required. Avoid eye contact. Wash hands after use.

Bulk Quantities and Workplace: Avoid contact with skin, eyes, and clothing. Solution can cause irritation. Ensure good ventilation in the work area to prevent the build-up of vapors. Wear appropriate personal protective equipment (PPE) such as gloves, eye protection, and protective clothing. Wash hands thoroughly after handling. Avoid inhaling mist or vapors.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep the container tightly closed when not in use to avoid evaporation and spillage. Store away from direct sunlight and sources of heat to prevent degradation.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Normal Consumer Use (dropper-scale): No special PPE required. Avoid eye contact. Wash hands after use.

Bulk Quantities and Workplace:

Exposure Limits: No occupational exposure limits established for this mixture.

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Provide an eyewash station where bulk handling or transfers occur.

Personal Protective Equipment (PPE): Safety glasses or chemical goggles; chemical-resistant gloves (e.g., nitrile or neoprene). Use a face shield if splashing is likely. Respiratory protection is not generally required with adequate ventilation; if mist/vapor is present, use a NIOSH-approved respirator as needed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to yellowish tint liquid

Odor: Faint bleach-like odor

pH: ≥12 @ 25°C

Melting/Freezing Point: ~0°C

Boiling Point: ~100°C

Flash Point: Not applicable

Evaporation Rate: Similar to water

Flammability: Not flammable

Vapor Pressure: Similar to water

Density: 1.27 g/cm^3

Mechanical Impact Sensitivity: Not applicable

Static Discharge Sensitivity: Not applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Reactivity: Reacts with acids to release chlorine dioxide gas.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid/Incompatible Materials: Excessive heat, direct sunlight. Acids, reducing agents, combustible materials.

Hazardous Decomposition Products: Chlorine dioxide, chlorine, oxides of sodium.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Harmful if swallowed.

Skin Corrosion/Irritation: Irritating to skin, can cause skin rash/burning with prolonged contact.

Serious Eye Damage/Eye Irritation: Causes serious eye irritation with prolonged contact.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

LD50: (Rat) 528 mg/kg (25% Solution).

Carcinogenicity: Not classified.

Reproductive Toxicity: Not classified.

STOT (Single Exposure): Not classified.

STOT (Repeated Exposure): Not classified.

Aspiration Hazard: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Not expected to be harmful to aquatic life in typical use concentrations. Larger quantities may be toxic.

Persistence and Biodegradability: Not readily biodegradable; sodium chlorite dissociates into ions, which may reduce to harmless forms over time.

Bio-accumulation Potential: Low

Mobility in Soil: Soluble in water

Other Adverse Effects: May affect aquatic ecosystems at high concentrations.

SECTION 13: DISPOSAL CONSIDERATIONS

Section 13(A): Bulk Storage and Workplace

Waste Treatment Methods: Dispose of in accordance with federal, state, and local regulations. Avoid drying solution on absorbent material.

Large Quantities: Contain spillage, and then collect with non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Do not flush to sewer.

Section 13(B): Consumer Quantities

Small Amounts (< 33 oz@25%): May be heavily diluted and rinsed to drain.

Sunlight Exposure: Outdoor decomposition is possible in diluted containers.

Reduction: Sodium thiosulfate may be used to neutralize residual chlorite.

Caution: Rinse all materials before disposal to avoid combustion risk.

SECTION 14: TRANSPORT INFORMATION

UN Number: 1908

UN Proper Shipping Name: Chlorite Solution

Transport Hazard Class: 8 (Corrosive)

Packing Group: II

Note: May qualify as Limited Quantity if ≤1L in compliant packaging

SECTION 15: REGULATORY INFORMATION

Regulatory Status: Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA: All components listed

SARA 302: Not subject

SARA 313: Sodium chlorite (CAS 7758-19-2) – approximately 25% by weight

California Prop 65: No listed substances

WHMIS: Not classified

SECTION 16: OTHER INFORMATION

Date of Last Revision: August 2026

Revision Note: Revised to update spill and disposal instructions for 25% Sodium Chlorite Solution. (see below)

Section 6 (Accidental Release Measures) & Section 13 (Disposal Considerations):

• Included specific guidance on the fire hazard associated with dried residues.

• Revised to differentiate between consumer-level and warehouse/bulk shipment protocols.

• These changes provide practical and regulatory-compliant handling and disposal instructions for real-world consumer use scenarios.

Supersedes: All previous versions

Disclaimer: This Safety Data Sheet is provided for informational purposes only and is intended solely as a guide for the safe handling, use, processing, storage, transportation, and disposal of the product. It includes considerations for small, consumer-sized retail packaging. The information is believed to be accurate as of the date of issue but does not constitute a legally binding guarantee of product specifications or fitness for a particular purpose. No warranty, express or implied, is made. The user assumes full responsibility for safe and compliant use of the product.