



SENTRY INDUSTRIES INC.

MATERIAL SAFETY DATA SHEET

SECTION I CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TRADE NAME: **SAF-T-CLOR**
 CHEMICAL NAME/SYNONYMS: Sodium Hypochlorite Solution, Bleach Solution, Hypo-solution, Chlorine Bleach
 C.A.S. REGISTRY #: 7681-52-9
 MANUFACTURER: Sentry Industries Inc. 5687 N.W. 36th Ave. Miami Fl. 33142
 TELEPHONE: (800) 227-2047 (305) 638-0800 (954) 527-4000
 24 Hr EMERGENCY RESPONSE: SENTRY 305-968-3827, CHEM-TEL 800-255-3924

SECTION II INGREDIENTS & HAZARDS

Ingredient(s):
 Sodium Hypochlorite (NaOCl) 10.0 - 11.0% wt
 Salt (NaCl) 6.0 - 8.0% wt
 Sodium Hydroxide (NaOH) 0.1 - 0.3% wt
 Water (H₂O) 81.0 - 84.0% wt
 Hazardous Mixtures of other Liquids, Solids, or Gases: Reacts violently with acids liberating chlorine gas. Also reacts with organic substances. When heated, gives off oxygen that may increase fire hazard.

SECTION III PHYSICAL DATA

CHEMICAL NAME: Sodium Hypochlorite
 CHEMICAL FAMILY: Alkali
 FORMULA: NaOCl
 APPEARANCE AND ODOR: Clear yellow liquid, Pungent - Chlorine odor like household bleach.
 pH: Approximately 12
 BOILING POINT: Degrades at 230° F
 FREEZING POINT: 7° F
 SPECIFIC GRAVITY: 1.15 - 1.17 at 60° F
 VAPOR PRESSURE (mm HG): VP of water + decomposition product VP.
 VAPOR DENSITY: N/A
 SOLUBILITY IN WATER: Complete
 DENSITY: Approx. 10 lbs. per gallon

SECTION IV FIRE AND EXPLOSION HAZARD

Flash Point: Non-flammable
 Flammable Limits: Non-flammable
 National Fire Rating System (NFPA): None (According to NFPA 430 – Sodium Hypochlorite is not an oxidizer)
 Hazard Material Identification System (HMIS):
 Health (Blue) 2
 Fire (Red) 0
 Reactivity (Yellow) 0
 Extinguishing Media: Use spray, fog, and foam, dry chemical or CO₂ agents suitable for surrounding fire.
 Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Avoid inhalation of fumes and body contact.
 Unusual fire & Explosion Hazards: Many reactions can cause fire and explosion. This material will react with some metals that may cause liberation of oxygen. Toxic fumes can be liberated by contact with acid or heat. Vigorous reactions can occur with oxidizable materials and organics.

Additional Information: Keep material cool using a water spray from a safe distance. Keep all unnecessary people away. Stay upwind and out of low lying areas.

SECTION V HEALTH HAZARD DATA

NOTE: CALL A POISON CONTROL CENTER OR MEDICAL PHYSICIAN FOR ADVICE. HAVE THE PRODUCT LABEL OR MSDS WITH YOU WHEN CALLING OR GOING FOR MEDICAL TREATMENT.

	<u>Health Effects of Overexposure:</u>	<u>Emergency and First Aid Procedures:</u>
Eye Contact:	Severe irritation to the eyes. Can cause tearing, conjunctivitis, and burning of the eyes.	Irrigate with water for at least 15 – 20 minutes, including under eyelids. Call a poison control center or medical physician for advice. Get medical treatment immediately.
Skin Contact:	May cause redness, pain, blistering, itchy eczema and chemical burns.	Remove contaminated clothing. Flush affected area with large amounts of water preferably using a safety shower. If skin is burned get medical treatment immediately.
Inhalation:	May cause severe bronchial irritation, sore throat with possible blistering, coughing, stomatitis, nausea, labored breathing, shortness of breath and pulmonary edema.	Remove to fresh air. If person is not breathing, give artificial respiration. If breathing is difficult, have trained personnel administer oxygen. Get medical treatment immediately.
Ingestion:	May cause corrosion of mucous membranes, perforation of esophagus and stomach, and laryngeal edema, may lead to convulsion, coma, and death.	Rinse mouth with water. Drink large quantities of water or milk, do not induce vomiting. Repeat DO NOT use acidic antidotes such as sodium bicarbonate. Milk of magnesia may be helpful. Get medical treatment immediately.

SECTION VI TOXICOLOGICAL DATA

Threshold Limit Value: TWA - None

Toxic Limits Oral - Rat - LD50 - 13 g/kg for 5.15% solution

Irritation Data – 10mg eyes – rabbit moderate

Carcinogen Status – No components of this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as carcinogen.

Local effects – Corrosive: inhalation, skin contact, eye, ingestion hazards

Acute Toxicity Level – Slightly toxic if ingested.

Environmental Summary – Highly toxic to aquatic life.

SECTION VII REACTIVITY DATA

Stability:	Relatively stable
Incompatibility:	Acids, ammonia, oxidizable materials, metals (such as aluminum, tin, copper, nickel, manganese, and iron), heat sources, and light sources.
Hazardous Decomposition Products:	Chlorine, hydrochloric acid, and hypochlorous acid vapors. Oxygen can be generated during decomposition.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Due to formation of Chloramines - mixing ammonia and hypochlorite solutions should be avoided.

SECTION VIII SPILL OR LEAK PROCEDURES

Steps to be taken if material is Released or Spilled: Concentrated solutions will seriously affect aquatic life. Do not allow material to enter sewers, streams, ponds or storm conduits. Personnel involved in the cleaning must be equipped with NIOSH approved respirator protection, eye protection, rubber boots, gloves, and clothing to avoid body contact.

Waste Disposal Methods: Contain spills in plastic drums when available. Contain in as small an area as possible, such as a holding area for dilution and neutralization. Dispose in accordance with Federal, State, and local regulations. Hazardous Waste # D001.

Additional Information: Reportable quantity - 100 lbs (45.4kg)

Neutralization chemicals: Sodium Sulfite, Sodium Thiosulfate and Sodium Bisulfite

Do not absorb spills with flammable materials such as sawdust or combustible absorbents. Contact your supplier for assistance. Plan in advance for such an incident and have necessary equipment available.

SECTION IX SPECIAL PROTECTION INFORMATION

Respirator Protection: Suitable for acid gases and chlorine. Self-contained breathing apparatus should be used for strong concentrations.

Ventilation: Local exhaust ventilation - personnel should not be exposed to irritating effects of the fumes.

Protective Gloves: Rubber

Eye Protection: Chemical proof splash goggles are preferred to face shields.

Other Protective Equipment: Hard hat, boots and clothing to avoid body contact such as rubber apron or rain suit. Eye wash and safety showers should be available in handling areas.

SECTION X TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Hypochlorite Solution

DOT IDENTIFICATION #: UN1791

DOT HAZARD CLASS: 8 (Corrosive)

PAKAGING GROUP: PG III

LABELING: Corrosive

RQ: 100 pounds

DOT EMERGENCY GUIDE NO: 154

EMERGENCY TELEPHONE #: Chem-Tel 800-255-3924

SECTION XI REGULATORY INFORMATION

OSHA Classification 29CFR1910:

Physical Hazards: Reactivity, Oxidizer. Health Hazards: Acute – Skin Sensitizer, Corrosive

CERCLA AND SARA Regulations, 40CFR300-373: RQ = 100 lbs. CERCLA Hazardous Material = Yes,

SARA Extremely Hazardous Substance = No, SARA Toxic Chemical = No

EPA Clean Air Act: This product does not contain nor is it manufactured with ozone depleting substances.

EPA Pesticide: These products are registered with the U.S. EPA as a pesticide, as required under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is under FIFRA approved product label. It is a violation of Federal law to use this product for pesticidal applications in a manner inconsistent with the FIFRA labeling.

SECTION XII HANDLING PRECAUTIONS

Precautions to be taken in handling and storing: Store in vented, closed containers that provide protection from direct sunlight. Keep temperature below 85 degrees F. Do not store near acids, heat, or oxidizable materials or organics. If splashed with this material, remove contaminated clothing and thoroughly wash with water. Drench contaminated material with plenty of water.

Other Precautions: Do not mix with other cleaning agents that may liberate chlorine gas vapors (i.e. acidic agents).

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