SENTRY INDUSTRIES INC.

SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TRADE NAME: Sta Clear Liquid Chlorinator
CHEMICAL NAME/SYNONYMS: Sodium Hypochlorite, Bleach Solution, Hypochlorite Solution, Chlorine Bleach
MANUFACTURER: Sentry Industries Inc. 5687 N.W. 36th Ave. Miami Fl. 33142
TELEPHONE: (305) 638-0800 (954) 527-4000 (800) 227-2047
24 Hr EMERGENCY RESPONSE: SENTRY 305-968-3827, CHEM-TEL 800-255-3924, CHEMTRC 800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

GHS Label elements, including precautionary statements

Pictogram

Signal word: **DANGER**

Hazard statement(s)

Causes severe skin burns and eye damage.
Causes serious eye damage.
Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
Wash contaminated clothing before reuse.
Collect spillage. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

Contact with acids liberates toxic gas.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Components/Ingredient(s):	PERCENT	CAS NO.
Sodium Hypochlorite (NaOCl)	10.0 - 11.0% wt	7681-52-9
Sodium Chloride (Salt) (NaCl)	6.0 - 8.0% wt	7647-14-5
Sodium Hydroxide (NaOH)	0.1 - 0.3% wt	1310-73-2
Water (H_2O)	Balance	7732-18-5

SECTION 4 FIRST AID PROCEDURES

Eye Contact: 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: 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: 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: 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.

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.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: Non-flammable
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 6 ACCIDENTAL RELEASE MEASURES

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 cleanup 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 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in cool, dry, well ventilated area 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).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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: Chemical impervious rubber gloves
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 9 PHYSICAL AND CHEMICAL PROPERIES

CHEMICAL NAME:	Sodium Hypochlorite	CHEMICAL FAMILY:	Alkali
FORMULA:	NaOCl	pH:	Approximately 12
BOILING POINT:	Degrades at 230º F	FREEZING POINT:	7º F
SPECIFIC GRAVITY:	1.15 - 1.17 at 60º F		
VAPOR PRESSURE (mm HG):	17.5 (20° C)	VAPOR DENSITY:	N/A
SOLUBILITY IN WATER:	Complete	DENSITY:	Approx. 10 lbs. per gallon

APPEARANCE AND ODOR: Clear yellow liquid, Pungent - Chlorine odor, like household bleach.

SECTION 10 STABILITY AND REACTIVITY

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 11 TOXILOGICAL INFORMATION

Threshold Limit Value: N/A
Toxic Limits Oral - Rat - LD50 - 13 g/kg for 5.15% solution
Irritation Data – 10mg eyes – rabbit moderate
Local effects – Corrosive: inhalation, skin contact, eye, ingestion hazards
Acute Toxicity Level – Slightly toxic if ingested.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Summary – Highly toxic to aquatic life.
DAPHNIA MAGNA 24 HR. LC50=> 500 MG/L ZEBRA FISH STATIC 24 HR. LC50=> 500 MG/L

SECTION 13 DISPOSAL CONSIDERATIONS

Do not discharge into waterways or sewer systems without prior approval. Dispose of waste materials according to Federal, State and Local regulations.

SECTION 14 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Hypochlorite Solutions
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 15 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.

EPA Registration Number: 51549-3
NSF Maximum Use Level for Potable Water (Standard 60): Check annual limits. Ranges from 56 mg/l to 100 mg/l

TSCA (Toxic Substance Control Act), 40 DFR 710: Sources of all raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance to TSCA.

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)	1

SECTION 16 OTHER INFORMATION

4/4/08 Revise formatting to GHS standards.
11/1/11 New product name – Sta Clear Liquid Chlorinator
3/10/15 Add GHS pictograms
6/30/15 Revise Hazards Identification and include GHS elements

Certified to NSF/ANSI 60

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