

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires SDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

SECTION 1. IDENTIFICATION

Product Identifier: Sodium Hypochlorite 12.5% Product Use: Industrial Bleach 12 – 15% Manufactured By: Kor-Chem Inc. 5800 Bucknell Drive Atlanta, GA 30336	Product Identification # (PIF): 00079 Emergency Telephone #: 1-800-255-3924 General Information #: 404-344-9580 Date Prepared: June 9, 2014 Revised: June 25, 2015
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SECTION 2. HAZARD(S) IDENTIFICATION

GHS Hazard Codification:



Signal Word: DANGER

Hazard Class	Category	Code	Hazard Statement
Acute Toxicity, Oral	4	H302	Harmful if swallowed
Skin Corrosion	1C	H314	Causes severe skin burns and eye damage
Skin Sensitization	1	H317	May cause an allergic skin reaction
Serious Eye Damage	1	H318	Causes serious eye damage
Acute Toxicity, Inhalation	4	H332	Harmful if inhaled
Hazardous to the Aquatic Environment, Acute Hazard	1	H400	Very toxic to aquatic life

Precautionary	Code	Statement
Prevention	P260 P264 P270 P272 P273 P280	Do not breathe fumes/mists/ vapors/sprays. Wash thoroughly after handling. Do not eat, drink or smoke or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	P301+P310 P330+P331 P303+P361+P353 P363 P304+P340 P310 P321 P305+P351+P338 P391	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. 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. Specific treatments: See section 4 First Aid Measures. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Collect spillage.
Storage	P405	Store locked up.
Disposal	P501	Dispose of contents/container in compliance with all Federal, State/Provincial and local laws and regulations.

Description of any hazards not otherwise classified: Potential health effects – Repeated exposure may cause drying and flaking of the skin (dermatitis). Vapors harmful - severe respiratory tract irritation may occur. Harmful or fatal if swallowed.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Max. %
Sodium Hypochlorite	7681-52-9	12 – 15

SECTION 4. FIRST AID MEASURES

- **Eyes:** Flush well with water for at least 15 minutes, holding eyelids open. Remove any contact lenses. Seek medical attention.
- **Skin:** Wash with soap and water and continue flushing with water for 15 minutes. Remove contaminated clothing and launder before reuse. Contaminated work clothing should not be allowed out of the workplace. If irritation develops and persists, seek medical attention.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration by way of pocket mask equipped with one-way valve or other proper respiratory device – Do NOT use mouth-to-mouth method if victim inhaled material. Call a physician.
- **Ingestion:** DO NOT INDUCE VOMITING. Call a physician immediately. If victim is completely conscious and alert, give two glasses of water to dilute. Never give anything by mouth to an unconscious person.

SECTION 5. FIRE-FIGHTING MEASURES

Flammability: Not flammable

Flash Point: Not flammable

- Extinguishing Media: Use media appropriate for surrounding fire.
- Specific hazards arising from chemical: Hazardous gases may be formed.
- Hazardous combustion products: Hydrogen chloride, phosgene, sodium oxide and hydroxide.
- Firefighting protective equipment: Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with acid gas cartridge with appropriate turn-out gear and chemical resistant personal protective equipment.
- Sensitivity to static discharge: This product is not sensitive to static discharge.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (Section 8). Ventilate area. Do not breathe fumes/mists/ vapors/sprays. Avoid release to the environment – collect spillage.

- For Small Spills: Spilled material may be slippery. Avoid dispersal of material and runoff into soil, waterways, drains and sewers. Use water fog to suppress vapors. Neutralize spill with citric acid or other weak acid neutralizing agent. Litmus paper may be used to confirm neutralization. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Wash walking surfaces with water. Dispose of contaminated absorbent material in accordance with local, state and federal regulations.
- For Large Spills: Large spills cannot occur due to packaging.

SECTION 7. HANDLING AND STORAGE

- Handling: Wear personal protection equipment (Section 8). Use with adequate ventilation. Do not breathe fumes/mists/ vapors/sprays. Do not pre-mix with other chemicals. Empty containers may contain residue and can be dangerous. Do not eat, drink or smoke in work areas. Wash thoroughly after handling.
- Storage: Keep away from heat, flame, or sunlight. Keep from freezing. Keep container closed when not in use. Store locked up. Protect from physical damage. Store away from acids, combustible/reducing materials, ammonia salts, plastics, rubber coatings and metals such as aluminum, zinc, tin and lead.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS #	OSHA/PEL	ACGIH/TLV	OSHA/STEL
Sodium Hypochlorite	7681-52-9	1ppm	0.5ppm	3ppm

Engineering Controls: Provide adequate ventilation. Observe occupational exposure limits and keep the risk of exposure to a minimum.

Personal protective equipment:

- Eye: Safety glasses with side shields or splash proof goggles and face shield.
- Skin: Chemical resistant gloves. Normal materials handling clothing and apron.
- Respirator: Use NIOSH approved protection with acid gas cartridge if PEL is exceeded or if vapors are causing irritation.
- Other: Use only in a well ventilated area. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow, clear liquid	Upper/Lower flammability limits	Not determined
Odor	Chlorine	Vapor pressure	12mmHg @ 20°C
Odor threshold	Not determined	Vapor density (Air = 1)	<1
pH	11 – 14	Specific gravity (water = 1.0)	1.200 g/ml
Melting point	Not determined	Solubility	Complete in water
Freezing point	Not determined	Partition coefficient (n-octanol/water)	Not determined
Boiling point	Not determined	Auto-ignition temperature	Not determined
Flash point	Not flammable	Decomposition temperature	Not determined
Evaporation rate (n-butyl acetate=1)	<1	Viscosity	Not determined
Flammability	Not flammable	%Volatile/Volume	87.5

SECTION 10. STABILITY AND REACTIVITY

- Reactivity: This product is a strong oxidant, and reacts violently with combustible and reducing materials. Acid contact will produce toxic chlorine gas.
- Chemical stability: Stable under normal, ambient temperature and conditions.
- Possibility of hazardous reactions: Hazardous polymerization will not occur.
- Conditions to avoid: Heat, flame, sparks and ultra-violet light sources. Keep from freezing. Do not mix with other chemicals.
- Substances to avoid: Avoid acids, combustible/reducing materials, ammonia salts, plastics, rubber coatings and metals such as aluminum, zinc, tin and lead. Acid contact will produce toxic chlorine gas.
- Hazardous combustion products: Hydrogen chloride, phosgene, sodium oxide and hydroxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity (short and long term):

- Oral (LD50 Rat): 3000-5000mg/kg
- Dermal (LD50 Rabbit): >2000mg/kg
- Inhalation (LC50 Rat): Not determined
- Eye Contact: Corrosive to eyes.

- **Skin Contact:** Corrosive to skin. May cause allergic skin reaction. Repeated exposure may cause drying and flaking of the skin (dermatitis).
- **Inhalation:** Vapors harmful. Severe respiratory tract irritation may occur.
- **Ingestion:** Corrosive to digestive tract – May cause gastrointestinal irritation, burns, nausea, vomiting or diarrhea.
- **NTP/IARC/OSHA Carcinogen:** No

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Effects:

- 96h LC-50 (Bluegill): 2.9 mg/L
- 96h EC-50 (invertebrates): Not determined
- 48h LC-50 (algae): Not determined
- **Aquatic toxicity:** Very toxic to aquatic organisms. Avoid release to the environment. Collect spillage.
- **Biodegradability:** Readily biodegradable
- **Bioaccumulation:** No data available
- **Mobility:** This product is soluble in water and may spread in water systems.

SECTION 13. DISPOSAL CONSIDERATIONS

- **Disposal of Wastes:** Do not dump into sewers, on the ground or into any waterways. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.
- **Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied. Do not cut, drill, grind or weld on or near the container.
- **RCRA:** A waste containing this product may have the RCRA hazardous waste no. D002 (Corrosive) (40 CFR 261.22).

SECTION 14. TRANSPORT INFORMATION

United States DOT:

- UN/ID No.: UN1791
- Proper Shipping Name: Hypochlorite Solutions
- Hazard Class: 8
- Packing Group: III
- USA: Label has to comply with OSHA Hazard Communication Standard (29 CFR 1910.1200)
- **49 CFR §173.154 (b) (3) (Exemption):** This product can ship as "Limited Quantity" in inner packaging not over 1.3 gallons. (Non Hazardous)

IATA and IMDG:

- UN/ID No.: UN1791
- Proper Shipping Name: Hypochlorite Solutions
- Hazard Class: 8
- Packing Group: III
- Marine Pollutant (IMDG Code): Listed - Chlorine
- Transportation in bulk (IMDG - Annex II of MARPOL 73/78 and IBC Code): Not offered in bulk for transport overseas.

SECTION 15. REGULATORY INFORMATION

TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

SARA Section 302: The components of this product are either not regulated or regulated, but present in negligible concentrations.

SARA TITLE III Section 311/312:

Immediate (Acute) Health	Yes	Fire Hazard	No
Delayed (Chronic) Health	No	Reactive Hazard	Yes

SARA Title 313: This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels (40 CFR 372).

CERCLA: This product has a reportable quantity of 800 lbs. (Sodium Hypochlorite)

United States Right-To-Know: Sodium Hypochlorite CAS# 7681-52-9 – Illinois, New Jersey and North Dakota.

Proposition 65: This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D002 (Corrosive) (40 CFR 261.22).

SECTION 16. OTHER INFORMATION

- Date Prepared: June 25, 2015
- Hazard Ratings (HMIS): Health 3, Flammability 0, Reactivity 2 (Scale 0 – 4). Personal Protection Rating to be supplied by user based on use conditions.
- Product VOC: 0%
- Carefully read all instructions on label before handling this product.
- Keep out of reach of children.
- "FOR INDUSTRIAL USE ONLY"

Abbreviation	Full Name/Explanation
ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CNS	Central Nervous System

CFR	Code of Federal Regulations
DOT	Department of Transportation
EC	Effective Concentration
HMIS	Hazardous Material Information System
LC	Lethal Concentration
LD	Lethal Dose
NA	Not Applicable
ND	Not Determined
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.

SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED, REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS, CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.