

**1 – PRODUCT and COMPANY IDENTIFICATION**

**PRODUCT NAME:**..... SODIUM HYPOCHLORITE, SOLUTION 12.5%  
**PRODUCT NUMBER:**.....07905  
**CHEMICAL NAME/CLASS/SYNONYMS:** .....SODIUM HYPOCHLORITE SOLUTION

**RECOMMENDED USE:**..... SWIMMING POOL CHLORINATOR, HARD SURFACE CLEANER,  
MILDECIDE, WATER TREATMENT CHEMICAL, BIOCIDES,  
BLEACH SOLUTIONS AND BLEACH FIXER SOLUTIONS

**DISTRIBUTOR:** **VIKING CHEMICAL**  
1827 - 18TH AVENUE  
P.O. BOX 1595  
ROCKFORD, IL 61110  
(815) 397-0500

**EMERGENCY PHONE:** ..... (800) 424-9300 (CHEMTREC)

**2 – HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:**

Substance or Mixture Corrosive to Metal (1)  
Skin Corrosion/Irritation (1)  
Serious Eye Damage/Eye Irritation (1)  
Target Organ Toxicity- Single Exposure (Respiratory Tract Irritation) (3)  
Acute Aquatic Toxicity (1)  
Chronic Aquatic Toxicity (2)

**GHS LABEL:**



**SIGNAL WORD:** ..... Danger

**HAZARD STATEMENTS:**

H290: May be corrosive to metals  
H314: Causes severe skin burns and eye damage  
H335: May cause respiratory irritation  
H400: Very toxic to aquatic life  
H411: Toxic to aquatic life with long lasting effects

**PRECAUTIONARY STATEMENTS:**

P280: Wear protective gloves/protective clothing/eye protection/face protection  
P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P271: Use only outdoors or in a well-ventilated area  
P264: Wash exposed area thoroughly after handling.



## Safety Data Sheet

P234: Keep only in original packaging.  
 P273: Avoid release to the environment  
 P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 P310: Immediately call a POISON CENTER/doctor/physician  
 P363: Wash contaminated clothing before reuse  
 P390 : Absorb spillage to prevent material damage. Collect spillage  
 P403+233: Store in a well ventilated place. Keep container tightly closed  
 P405: Store locked up  
 P406: Store in a corrosion resistant container with a resistant inner liner.  
 P501: Dispose of contents/container to comply with local, state and federal regulations

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: MIXTURE

CHEMICAL NAME	CAS NUMBER	Wt/Wt%
SODIUM HYPOCHLORITE	7681-52-9	~12.5%
SODIUM HYDROXIDE	1310-73-2	0.3-5%

### 4 – FIRST-AID MEASURES

**INHALATION:**..... Remove the victim into fresh air. Respiratory problems: Seek immediate medical attention.

**EYE CONTACT:** ..... Rinse eyes gently with water for at least 15 minutes while holding eyelids apart. Remove contact lenses, if present and easy to do - continue rinsing. Seek immediate medical attention.

**SKIN CONTACT:** ..... Remove contaminated clothing. Wash exposed area with water for at least 15 minutes. Seek medical attention. Wash contaminated clothing before reuse.

**INGESTION:** ..... Rinse mouth.If individual is drowsy or unconscious, do not give anything by mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low to prevent aspiration of liquid into the lungs. If possible, do not leave individual unattended. Seek immediate medical attention.

**NOTE TO PHYSICIANS:** ..... Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.

### 5 – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:**..... Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry extinguishing media that contains ammonium compounds.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** .....During fire, gases hazardous to health may be formed.

**SPECIAL FIRE FIGHTING PROCEDURES:** .....Use standard firefighting procedures and consider the hazards of other involved materials. Exercise caution when fighting any chemical fire.

**6 – ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** ... Wear protective equipment.  
**ENVIRONMENTAL PRECAUTIONS:** .....Prevent contamination of soil, drains or surface water. use appropriate containment method to avoid environmental contamination.  
**MEASURES FOR CONTAINMENT AND CLEANING UP:** Large Spills: Stop the flow of material. if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  
Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

**7 – HANDLING and STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:** .....Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.  
**PRECAUTIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:** Keep container tightly closed. Store in a cool and well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

**8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**OCCUPATIONAL EXPOSURE LIMITS:**  
**COMPONENT (CAS NUMBER):** Sodium hydroxide (1310-73-2)  
**ACGIH** ..... 2 mg/m3 Ceiling  
**OSHA** ..... 2 mg/m3 PEL  
**NIOSH** ..... 2 mg/m3 Ceiling  
**COMPONENT (CAS NUMBER):** Sodium hypochlorite (7681-52-9)  
**WEEL** ..... 2 mg/m3 STEL

**APPROPRIATE ENGINEERING CONTROLS:** ..... Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**PERSONAL PROTECTIVE EQUIPMENT:**

**RESPIRATORY PROTECTION:** . If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable for concentrations up to 10 times the PEL. For higher concentrations, unknown concentrations and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Engineering controls are the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

**SKIN PROTECTION:** ..... Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

**EYE PROTECTION:** ..... Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

**ADDITIONAL MEASURES:** ..... Ensure that eyewash stations and safety showers are close to the workstation location.

**9 – PHYSICAL / CHEMICAL PROPERTIES**

**APPEARANCE/ODOR:** ..... Liquid / Pungent Odor

**ODOR THRESHOLD:** ..... 0.9 mg/m<sup>3</sup>

**pH:** ..... 12 - 14 (25 °C/77 °F)

**MELTING/FREEZING POINT:** -4 °F (-20 °C) (7% solution)

**BOILING POINT/RANGE:** ..... N.A.

**FLASH POINT:** ..... N.A.

**EVAPORATION RATE:** ..... N.A.

**FLAMMABILITY:** ..... N.A.

**LOWER EXPLOSIVE LIMIT:** .. N.A.

**UPPER EXPLOSIVE LIMIT:** .... N.A.

**VAPOR PRESSURE:** ..... 12 mm Hg (20°C/68°F)

**VAPOR DENSITY (AIR=1):** ..... N.A.

**SPECIFIC GRAVITY OR RELATIVE DENSITY:** .... 1.082 – 1.275 at 20°C (68°F)

**SOLUBILITY(IES):** ..... Completely miscible

**PARTITION COEFFICIENT:** ... N.A.

**AUTOIGNITION TEMP:** ..... N.A.

**DECOMPOSITION TEMP:** ..... N.A.

**10 – STABILITY and REACTIVITY**

**STABILITY:** ..... The product is stable and non-reactive under normal conditions of use, storage and transport.

**POSSIBILITY OF HAZARDOUS REACTIONS:** ..... Hazardous polymerization does not occur.

**CONDITIONS TO AVOID:** ..... Contact with incompatible materials. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce chloramines.

**INCOMPATIBLE MATERIALS:** ..... Strong oxidizing agents. Acids. Metals. Organic compounds. Ammonia.

**HAZARDOUS DECOMPOSITION PRODUCTS:** ..... No hazardous decomposition products are known.

**11 – TOXICOLOGICAL INFORMATION**

**ROUTES OF EXPOSURE:** ..... Inhalation, ingestion, skin and/or eye contact.

**SYMPTOMS OF EXPOSURE:**

**SKIN CONTACT:** ..... Causes skin burns.

**EYE CONTACT:** ..... Causes eye burns.

**INHALATION:** ..... Vapors and spray mist may irritate throat and respiratory system and cause coughing.

**INGESTION:** ..... Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

**ACUTE TOXICITY:** ..... Occupational exposure to the substance or mixture may cause adverse effects.

**LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION:**

ORAL LD50 ..... Rat 3 - 5 g/kg

DERMAL LD50 ..... Rabbit > 2 g/kg

INHALATION LC50 ..... N.A.

**ADDITIONAL TOXICOLOGICAL INFORMATION:**

**CARCINOGENIC CATEGORIES:** ..... This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**12 – ECOLOGICAL INFORMATION**

**ECOTOXICITY (AQUATIC AND TERRESTRIAL, WHERE AVAILABLE):**

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product Species Test Results

Sodium Hypochlorite Solution 5-17% (CAS Mixture)

Aquatic

Crustacea	LC50	Daphnia	1 mg/l
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.6 mg/l, 48 hour

\* Estimates for product may be based on additional component data not shown.

**PERSISTENCE AND DEGRADABILITY:** ..... No data is available on the degradability of this product.

**BIOACCUMULATIVE POTENTIAL:** ..... No data available for this product.

**MOBILITY IN SOIL:** ..... N.A.

**OTHER ADVERSE EFFECTS:** . No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



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### 13 – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**..... Product should be disposed in an environmentally safe manner in accordance with local, state and federal regulations.

**UNCLEANED PACKAGING:**.... 'Empty' containers retain residue (liquid and/or vapor) and may be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION. Do not attempt to clean since residue is difficult to remove. 'Empty' drums should be completely drained, properly bunged and should be disposed of in an environmentally safe manner and in accordance with local, state and governmental regulations. For work on tanks, please refer to Occupational Safety and Health Administration regulations. ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other governmental and industrial contemplated operations.

### 14 – TRANSPORTATION INFORMATION

**UN/NA NUMBER:** ..... UN1791  
**UN PROPER SHIPPING NAME:** .....HYPOCHLORITE SOLUTIONS  
**TRANSPORT HAZARD CLASS:** .....8  
**PACKAGING GROUP :** ..... III  
**MARINE POLLUTANT:** ..... Yes  
**REPORTABLE QUANTITY:**..... N.A.  
**SPECIAL PRECAUTIONS:** ..... N.A.

### 15 – REGULATORY INFORMATION

Contents of this SDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

**FEDERAL REGULATIONS:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

SODIUM HYDROXIDE (CAS 1310-73-2): Listed

SODIUM HYPOCHLORITE (CAS 7681-52-9): Listed

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories:**..... Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

**SARA 302 Extremely Hazardous Substance:** .....Not listed.

**SARA 311/312 Hazardous Chemical:** .....Yes

**SARA 313 (TRI reporting):** ..... Not regulated.



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**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.  
**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated.  
**Safe Drinking Water Act (SDWA):** .....Nor regulated.

### US STATE REGULATIONS:

#### US. Massachusetts RTK - Substance List:

Sodium hydroxide (CAS 1310-73-2)  
 Sodium hypochlorite (CAS 7681-52-9)

#### US. New Jersey Worker and Community Right-to-Know Act:

Sodium hydroxide (CAS 1310-73-2)  
 Sodium hypochlorite (CAS 7681-52-9)

#### US. Pennsylvania Worker and Community Right-to-Know Law:

Sodium hydroxide (CAS 1310-73-2)  
 Sodium hypochlorite (CAS 7681-52-9)

#### US. Rhode Island RTK:

Sodium hydroxide (CAS 1310-73-2)  
 Sodium hypochlorite (CAS 7681-52-9)

**US. California Proposition 65:** .... California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) Listed substance:** Not listed.

### INTERNATIONAL INVENTORIES:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia:	Australian Inventory of Chemical Substances (AICS)	Yes
Canada:	Domestic Substances List (DSL)	Yes
Canada:	Non-Domestic Substances List (NDSL)	No
China:	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe:	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe:	European List of Notified Chemical Substances (ELINCS)	No
Japan:	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea:	Existing Chemicals List (ECL)	Yes
New Zealand:	New Zealand Inventory	Yes
Philippines:	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico:	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16 – OTHER INFORMATION

**DATE CREATED:** ..... 01/27/2016

**SDS REVISION DATE:**..... 01/13/2020

### ABBREVIATIONS AND ACRONYMS:

ACGIH - American Conference of Governmental Industrial Hygienists



## Safety Data Sheet

CAS - Chemical Abstract Service Number  
DOT – U.S. Department of Transportation  
IDLH – Immediately dangerous to life and health  
N.A. – Not Available  
NIOSH - National Institute of Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PEL – Permissible exposure Limit  
ppm – Parts per million  
RCRA – Resource Conservation and Recovery Act  
SARA – Superfund Amendments and Reauthorization Act  
TLV – Threshold Limit Value  
TSCA – Toxic Substances Control Act

**DISCLAIMER:** The information contained herein is accurate to the best of our knowledge. No warranty of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances.