



**CHEMICALS**

# SAFETY DATA SHEET

## 1. Identification

**Product identifier**

**Sodium Hypochlorite, 10-15% Solution**

**Other means of identification**

**SDS number**

AUC-003

**Synonyms**

Aqua Guard Chlorinating Santizier \* Aqua Guard Bleach \* Aqua Guard Sodium Hypochlorite 10.5% \* Aqua Guard Sodium Hypochlorite 12.5% \* Sodium Hypochlorite \* Liquid Bleach \* Bleach \* Hypo

**Recommended use**

Swimming pool chemical, hard surface cleaner, water treatment, bleaching, textiles, cooling towers, laundry sanitizer and agricultural/ aquacultural purposes

**Recommended restrictions**

None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name**

**Address**

**RESEARCH PRODUCTS, INC.  
OF ALABAMA**

6311 HIGHWAY 90 WEST  
THEODORE, ALABAMA 36590

OFF: (251) 653-0030

FAX: (251) 653-0036

**Telephone**

### FOR CHEMICAL EMERGENCY

Spill, Leak, Exposure or Incident

Call **INFOTRAC** • 24-Hour Number:

**1-800-535-5053** or +1-352-323-3500 (outside USA)

## 2. Hazard(s) identification

**Physical hazards**

Corrosive to metals

Category 1

**Health hazards**

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

**Environmental hazards**

This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**OSHA defined hazards**

This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**Label elements**



**Signal word**

Danger

**Hazard statement**

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

**Precautionary statement**

**Prevention**

Keep only in original container. Do not breathe mist. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

**Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Specific treatment (see this label). Wash contaminated clothing before reuse.

**Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)**

No OSHA defined hazard classes.

Other hazards which do not result in classification: Contact with most acids may liberate and toxic gas. Chronic skin contact with low concentrations may cause dermatitis.

**Supplemental information**

None.

**3. Composition/information on ingredients****Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sodium Hypochlorite	HYPOCHLORITE SOLUTION	7681-52-9	10-15.5
Sodium hydroxide	Caustic soda Lye Soda lye	1310-73-2	1-5
Other components below reportable levels			80-90

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**4. First-aid measures****Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, trained personnel should give oxygen. Call a physician or poison control center immediately.

**Skin contact**

Immediately flush skin with running water for at least 20 minutes. Take off immediately all contaminated clothing. Take off immediately all contaminated clothing. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse. Cover wound with sterile dressing. Do not rub area of contact. Leather and shoes that have been contaminated with the solution may need to be destroyed.

**Eye contact**

Immediately flush eyes with plenty of water for at least 20 minutes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Take care not to rinse contaminated water into the unaffected eye or onto the face.

**Ingestion**

Call a physician or poison control center immediately. Rinse mouth. If swallowed: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects, acute and delayed**

Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

**Indication of immediate medical attention and special treatment needed**

Immediate medical attention is required. Causes chemical burns. Treat symptomatically.

**General Information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**5. Fire-fighting measures****Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide. Use water with caution. Contact with water will generate considerable heat.



**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry chemical extinguishing agents. Maleic anhydride may react with the basic sodium compounds. Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.

**Specific hazards arising from the chemical**

Not considered flammable. Vapors are heavier than air and may spread along floors. Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Toxic fumes, gases or vapours may evolve on burning.

**Special protective equipment and precautions for firefighters**

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

**Fire fighting equipment/instructions**

Fight fire with normal precautions from a reasonable distance. Evacuate the area promptly. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

Vapors are heavier than air and may spread along floors.

**Hazardous combustion products**

Hydrogen gas. Hydrogen chloride. Chlorine. Oxygen. Sodium oxides.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Remove with vacuum trucks or pump to storage/salvage vessels. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Small spills can be neutralized by covering with a reducing agent, such as Sodium thiosulfate or Sodium sulphite. If not recoverable, dilute with water or flush to holding area and neutralize.

Never return spills to original containers for re-use. Contact the proper local authorities. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see Section 13.

**Environmental precautions**

Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling**

Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Label containers appropriately. When using, do not eat, drink or smoke. Do not taste or swallow. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Avoid ultraviolet (UV) light sources. Inspect periodically for damage or leaks. Store in corrosive resistant container with a resistant inner liner. Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents and all metals except titanium. Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3



**US. ACGIH Threshold Limit Values**

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**US. Workplace Environmental Exposure Level (WEEL) Guides**

Components	Type	Value
SODIUM HYPOCHLORITE (CAS 7681-52-9)	STEL	2 mg/m3

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**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.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Chemical goggles and face shield are recommended. Eye wash facilities and emergency shower must be available when handling this product.

**Skin protection****Hand protection**

Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

**Other**

Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. Use of an impervious apron is recommended.

**Respiratory protection**

Chemical respirator with organic vapor cartridge and full facepiece. A NIOSH/MSHA approved air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may be used to reduce exposure. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using, do not eat, drink or smoke. Do not breathe mist. Avoid contact with eyes, skin and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

**9. Physical and chemical properties**

**Appearance** Clear yellow/green liquid.

**Physical state** Liquid.

**Form** Liquid.

**Color** Clear to yellow/green.

**Odor** Pungent. Chlorine-like.

**Odor threshold** Not available.

**pH** 11 - 13

**Melting point/freezing point** 7.52 °F (-13.6 °C)

**Initial boiling point and boiling range** > 104 °F (> 40 °C)

**Flash point** Not Applicable

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not Applicable

**Flammability limit - lower (%) temperature** Not Applicable

Flammability limit - upper (%)	Not Applicable
Flammability limit - upper (%) temperature	Not Applicable
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	12 mm Hg
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other Information	
Density	1.18 g/cm3
Molecular formula	NaOCl
Molecular weight	74.4
Specific gravity	1.18

## 10. Stability and reactivity

Reactivity	Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. Reacts with amines and ammonia compounds to form explosively unstable compounds. May be corrosive to metals. May be corrosive to: Aluminum. Stainless steel. Carbon steel. Copper. Bronze
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Reacts vigorously or violently with many organic and inorganic chemicals such as: acids, acrolein, acrylonitrile, chlorinated hydrocarbons (e.g. 1,2 dichloroethylene), chlorine dioxide, maleic anhydride, nitroethane, nitroparaffins, 2-nitrophenol, nitropropane, phosphorus, potassium persulfate, and tetrahydrofuran (containing peroxides).
Conditions to avoid	Direct sources of heat. Avoid high temperatures. Direct sunlight. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Do not allow evaporation to dryness.
Incompatible materials	Metals. Strong oxidizing agents. Acids. Amines. Ammonia. Reducing agents. Nitrites. Organic compounds.
Hazardous decomposition products	None known, refer to hazardous combustion products in Section 5. In the event of fire the following can be released: Chlorine. Sodium chlorate.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system. May cause severe irritation to the nose, throat, and respiratory tract.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Most important symptoms/effects, acute and delayed	Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.
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### Information on toxicological effects



**Acute toxicity**

Not expected to be hazardous by OSHA criteria. There is no available data for the product itself, only for the ingredients. See data for individual ingredient acute toxicity data.

Components	Species	Test Results
Sodium hydroxide (CAS 1310-73-2)		
Acute		
Dermal		
LD50	Rabbit	No Data in Literature
Inhalation		
LC50	Rat	No Data in Literature
Oral		
LD50	Rat	No Data in Literature
Sodium Hypochlorite (CAS 7681-52-9)		
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
LC50	Rat	> 5.25 mg/l/4h
Oral		
LD50	Rat	8910 mg/kg
Skin corrosion/irritation	Hazardous by OSHA criteria. Causes severe skin burns. Causes severe skin burns and eye damage. Skin corrosion/irritation - Category 1.	
Serious eye damage/eye irritation	Hazardous by OSHA criteria. Causes serious eye damage. Serious eye damage/eye irritation - Category 1	
Respiratory or skin sensitization		
Respiratory sensitization	Not expected to be a respiratory sensitizer.	
Skin sensitizer	Not expected to be hazardous by OSHA criteria. Not expected to be a skin sensitizer.	
Germ cell mutagenicity	May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals. Not expected to be mutagenic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Sodium Hypochlorite (CAS 7681-52-9)		3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Hazardous by OSHA criteria. May cause respiratory irritation. Specific Target Organ Toxicity (STOT), Single Exposure, Category 3.	
Specific target organ toxicity - repeated exposure	Not classified as a specific target organ toxicity -repeated exposure.	
Aspiration toxicity	Not expected to be an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. Chronic skin contact with low concentrations may cause dermatitis.	

**12. Ecological information**

**Ecotoxicity** Toxic to aquatic life.

Components	Species	Test Results
<b>Sodium hydroxide (CAS 1310-73-2)</b>		
<b>Aquatic</b>		
<b>Acute</b>		
Crustacea	EC50 Water flea ( <i>Ceriodaphnia dubia</i> )	40 mg/l, 48 hours

Components	Species	Test Results
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> ) 125 mg/l, 96 hours
Sodium Hypochlorite (CAS 7681-52-9)		
Aquatic		
Acute		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 0.169 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 0.58 mg/l, 96 hours

**Persistence and degradability** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative potential** No accumulation in living organisms is expected due to high solubility and dissociation properties.

**Mobility in soil** High water solubility indicates a high mobility in soil.

**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.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

**UN number** UN1791

**UN proper shipping name** HYPOCHLORITE SOLUTIONS ( RQ = 100)

**Transport hazard class(es)**

**Class** 8

**Subsidiary risk** -

**Label(s)** 8

**Packing group** III

**Environmental hazards**

**Marine pollutant** Yes

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** IB3, N34, T4, TP2, TP24

**Packaging exceptions** 154

**Packaging non bulk** 203

**Packaging bulk** 241

This product does the definition of a marine pollutant as described in 49 CFR section 171.8.

#### IATA

**UN number** UN1791

**UN proper shipping name** HYPOCHLORITE SOLUTION

**Transport hazard class(es)**

**Class** 8

**Subsidiary risk** -

**Packing group** III

**Environmental hazards** NO

**ERG Code** 8L

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft** Allowed.

**Cargo aircraft only** Allowed.

## IMDG

UN number	UN1791
UN proper shipping name	HYPOCHLORITE SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

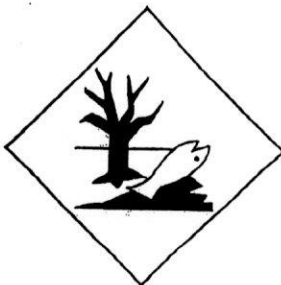
## DOT



## IATA; IMDG



## Marine pollutant



## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

Sodium hydroxide (CAS 1310-73-2)

Listed.

Sodium Hypochlorite (CAS 7681-52-9)

Listed.

### SARA 304 Emergency release notification

Not regulated.



**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not 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.

**Other federal regulations**

**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)**      Not regulated.

**US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**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.

**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

**Country(s) or region**

United States &amp; Puerto Rico

**Inventory name**

Toxic Substances Control Act (TSCA) Inventory

**On inventory (yes/no)\***

Yes

\*A "Yes" indicates that all components of this product comply 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, including date of preparation or last revision****Issue date**

03-15-2015

**Version #**

01

**HMIS**

H: 3 F: 0 R: 1

**NFPA**

H: 3 F: 0 R: 1

Certified to  
NSF/ANSI 60**List of abbreviations**

Maximum use level for Sodium hypochlorite under NSF/ANSI Standard 60 - Maximum use in potable water is 84 mg/L for 12.5% bleach and 100 mg/L for 10.5% bleach.

ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 DSL: Domestic Substance List  
 EC: European Community  
 EINECS: European Inventory of Existing Commercial chemical Substances  
 EPA: Environmental Protection Agency  
 EPCRA: Emergency Planning and Community Right-to-Know Act  
 HSDB® - Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association  
 IBC: Intermediate Bulk Container  
 IMDG: International Maritime Dangerous Goods  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 NOEC: No observable effect concentration  
 NTP: National Toxicology Program  
 OECD: Organisation for Economic Cooperation and Development  
 OSHA: Occupational Safety and Health Administration  
 PPE: Personal Protective Equipment  
 RCRA: Resource Conservation and Recovery Act  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments and Reauthorization Act  
 SDS: Safety Data Sheet  
 STEL: Short Term Exposure Limit  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average

Prepared by: ICC The Compliance Center Inc. 1-888-442-9628  
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**Disclaimer****Disclaimer**

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