



SAFETY DATA SHEET

Preparation Date: 1/07/2014

Revision Date: 8/19/2016

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: S1315
Product Name: SODIUM HYPOCHLORITE, SOLUTION, 5 PERCENT AVAILABLE CHLORINE, REAGENT

Other means of identification

Synonyms: Chlorine Bleach
 Bleach
 Soda Bleach
 Chlorox
 Sodium Hypochlorite, Solution, 5% available chlorine
CAS #: Mixture
RTECS # NH3486300 (Sodium Hypochlorite)
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Bleaching agent.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000.

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

Label elements

Danger

Hazard statements
 Causes skin irritation

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Causes serious eye damage

**Hazards not otherwise classified (HNOC)**

Not Applicable

Other hazards

Very toxic to aquatic life

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response*Specific treatment (see .? on this label)*

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.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Water	7732-18-5	>92
Sodium Hypochlorite	7681-52-9	4-7
Sodium Hydroxide	1310-73-2	<1

4. FIRST AID MEASURES**First aid measures****General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact:

Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or

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corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Causes skin irritation. Causes eye burns. Can burn mouth, throat, and stomach. Irritating to respiratory system. Nausea. Vomiting. May cause methemoglobinemia and cyanosis. Shallow respiration.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: Contact with combustible or organic materials may cause fire
Contact with metals may evolve flammable hydrogen gas

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Neutralize with Sodium Thiosulfate or Sodium Bisulfite. Dilute with water. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature in the original container. Keep at temperature not exceeding 35 °C/ 95 °F. It can be stored at temperatures between 2 and 30 deg. C. Protect from light. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Metals

Acids

Amines

Combustible materials

Organic materials

Reducing agents

Ammonia

Incompatible with ammonium acetate, ammonium carbonate, ammonium nitrate, ammonium oxalate, and ammonium phosphate, primary amines, phenyl acetonitrile, ethyleneimine, methanol, acidified benzyl cyanide, formic acid, urea, nitro compounds, methylcellulose, cellulose, aziridine, ether

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

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United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Water	7732-18-5	None	None	None	None
Sodium Hypochlorite	7681-52-9	None	None	None	2 mg/m ³ STEL
Sodium Hydroxide	1310-73-2	2 mg/m ³ TWA	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
Sodium Hypochlorite	7681-52-9	None	None	None	None
Sodium Hydroxide	1310-73-2	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Water	7732-18-5	None	None
Sodium Hypochlorite	7681-52-9	None	None
Sodium Hydroxide	1310-73-2	None	2 mg/m ³ Ceiling

Appropriate engineering controls**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment**Personal Protective Equipment**

Eye protection: Face-shield

Skin and body protection: Chemical resistant protective suit. Gloves. Boots.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical state:**

Liquid

Appearance:

No information available.

Color:Colorless. Light yellow.
Greenish-Yellow.**Odor:**

Characteristic. Slight Chlorine-like.

Taste

No information available.

Formula:

No information available

Molecular/Formula weight:

No information available

Flammability:

No information available

Flashpoint (°C/°F):

No information available.

Flash Point Tested according to:

Not available

Autoignition Temperature (°C/°F):

No information available

Lower Explosion Limit (%):

No information available

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Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): No information available	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 1.07-1.093 @ 20 deg. C	pH: 12-12.5	Vapor pressure @ 20°C (kPa): 2.3
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Freely soluble in water	

10. STABILITY AND REACTIVITY

Reactivity

Decomposition of sodium hypochlorite takes place within a few seconds with the following salts: ammonium acetate, ammonium carbonate; ammonium nitrate, ammonium oxalate and ammonium phosphate
 Primary amines and sodium hypochlorite react to form normal chloroamines, with are explosive
 Chloramine gas may be evolved when ammonia and bleach are mixed
 Mixing sodium hypochlorite with ammonia, acids, detergents or organic matter (e.g urine, feces, etc.) will release chlorine gas
 Chlorination of ethyleneimine with sodium hypochlorite gives the explosive compound 1-chloroethyleneimine
 Evolves flammable hydrogen gas on contact with metals
 It may be a fire risk in contact with organic materials
 Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire

Chemical stability

Stability: Stable at normal conditions. Unstable in air unless mixed with sodium hydroxide. Slowly decomposes on contact with air. Decomposed by carbon dioxide from air. Decomposed by hot water. Sensitive to light. Exposure to light accelerates decomposition.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Releases chlorine when heated above 35 deg. C. Exposure to light. Exposure to air. Incompatible materials.

Incompatible Materials: Metals
 Acids
 Amines
 Combustible materials
 Organic materials
 Reducing agents
 Ammonia
 Incompatible with ammonium acetate, ammonium carbonate, ammonium nitrate, ammonium oxalate, and ammonium phosphate, primary amines, phenyl acetonitrile, ethyleneimine, methanol, acidified benzyl cyanide, formic acid, urea, nitro compounds, methylcellulose, cellulose, aziridine, ether

Hazardous decomposition products: When heated to decomposition it emits toxic fumes. Hydrogen chloride gas. Hydrogen chloride. Sodium oxides. Chlorine.

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Other Information

Corrosivity: Extremely corrosive in presence of aluminum
Corrosive in presence of stainless steel (304)
Corrosive in presence of stainless steel (316)

Special Remarks on Corrosivity: Sodium hypochlorite is extremely corrosive to brass and moderately corrosive to bronze

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Principal Routes of Exposure:**

Skin. Inhalation. Ingestion. Eyes.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 164000 mg/kg
ATEmix (dermal) 135000 mg/kg
ATEmix (inhalation-dust/mist) 135000 mg/l

Component Information

Water	
CAS-No.	7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Sodium Hypochlorite	
CAS-No.	7681-52-9

LD50/oral/rat = = 8200 mg/kg Oral LD50 Rat
LD50/oral/mouse = 5800 mg/kg
LD50/dermal/rabbit = >10000 mg/kg
LD50/dermal/rat = =8200mg/kgOral LD50Rat
>10000mg/kgDermal LD50Rabbit
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Sodium Hydroxide	
CAS-No.	1310-73-2

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = 1350 mg/kg Dermal LD50Rabbit
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 500 mg/kg Oral LDL(Lowest Lethal Dose) Rabbit

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LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Contact causes severe skin irritation and possible burns. Can cause burning pain, inflammation and blisters. Contact with skin may also cause vesicular eruptions and eczematoid dermatitis which becomes evident upon re-exposure.

Eye Contact: Causes eye burns. Eye contact may also cause lacrimation, corneal clouding, cataract formation, necrosis of the cornea, corneal and conjunctival edema, conjunctival hemorrhages.

Inhalation Irritating to respiratory system. Inhalation causes slight to severe respiratory tract irritation and delayed pulmonary edema. Can cause dyspnea (shortness of breath and difficulty breathing). Other symptoms may include sore throat, chest tightness, coughing. Exposure to vapor or mist causes eye irritation.

Ingestion Causes digestive or gastrointestinal tract burns. Symptoms of acute ingestion may include: 1. pain and inflammation of the mouth, pharynx, esophagus, and stomach, difficulty swallowing, abdominal pain, drooling, 2. erosion of the mucous membranes (chiefly of the stomach), nausea, vomiting, diarrhea, choking, coughing, hemorrhage, 3. hypotension and circulatory collapse with cold and clammy skin (due to methemoglobinemia), cyanosis, and shortness of breath and shallow respirations, 4. confusion, delirium, somnolence, coma, 5. edema of the pharynx, glottis, larynx with stridor and obstruction, 6. perforation of the esophagus, or stomach, with mediastinitis or peritonitis.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: For Sodium Hypochlorite:
 May affect genetic material

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Mutations in microorganisms

Carcinogenic effects: Not considered carcinogenic. Not classifiable as to its carcinogenicity to humans.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium Hypochlorite	7681-52-9	Monograph 52 [1991] Hypochlorite salts	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium Hydroxide	1310-73-2	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organs: Skin. Eyes. Respiratory system. Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment. Very toxic to aquatic organisms.

Sodium Hypochlorite - 7681-52-9

Freshwater Fish Species Data: 0.03 - 0.19 mg/L LC50 Oncorhynchus mykiss 96 h semi-static 1
0.05 - 0.771 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1
0.06 - 0.11 mg/L LC50 Pimephales promelas 96 h flow-through 1
0.18 - 0.22 mg/L LC50 Oncorhynchus mykiss 96 h static 1
0.28 - 1 mg/L LC50 Lepomis macrochirus 96 h flow-through 1
0.4 - 0.8 mg/L LC50 Lepomis macrochirus 96 h static 1
4.5 - 7.6 mg/L LC50 Pimephales promelas 96 h static 1
0.033 - 0.044 mg/L EC50 Daphnia magna 48 h

Water Flea Data:

Sodium Hydroxide - 1310-73-2

Freshwater Fish Species Data: 45.4 mg/L LC50 Oncorhynchus mykiss 96 h static 1
189 mg/L LC50 Leuciscus idus 48h
Water Flea Data: 40.4 mg/L EC50 Ceriodaphnia sp. 48h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

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Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Sodium Hypochlorite	7681-52-9	None	None	None	None
Sodium Hydroxide	1310-73-2	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class: No information available
Packing group: No information available
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available
Description: No information available

ADR

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available

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Packing Group: No information available
Marine Pollutant No information available

RID

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

ICAO

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Water</i>	7732-18-5	Present	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
<i>Sodium Hypochlorite</i>	7681-52-9	Present	Present KE-31506	Present	Present (1)-237	Present	Present	Present 231-668-3
<i>Sodium Hydroxide</i>	1310-73-2	Present	Present KE-31487	Present	Present (2)-1972 (1)-410	Present	Present	Present 215-185-5

U.S. Regulations*Sodium Hypochlorite*

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1707
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
 100 lb RQ
Louisiana Reportable Quantity List for Pollutants: 100lbfinal RQ
 45.4kgfinal RQ
California Directors List of Hazardous Substances: Present

FDA - Direct Food Additives 21 CFR 173.315
FDA - 21 CFR - Total Food Additives 172.892 173.315 175.105 176.170 177.2800 178.1010

Sodium Hydroxide

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1706

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New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
 1000 lb RQ
 100 lb RQ
Louisiana Reportable Quantity List for Pollutants: 1000lbfinal RQ
 454kgfinal RQ
California Directors List of Hazardous Substances: Present
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1763
FDA - Direct Food Additives 21 CFR 173.310
FDA - 21 CFR - Total Food Additives 155.191 155.194 163.110 163.111 163.112 172.560 172.814 172.892 173.310
 176.170 176.180 176.210 177.1600 177.2800 184.1763 73.85

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Hypochlorite	7681-52-9	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Hydroxide	1310-73-2	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Sodium Hypochlorite	7681-52-9	100 lb final RQ 45.4 kg final RQ	None	None	None	None
Sodium Hydroxide	1310-73-2	1000 lb final RQ 454 kg final RQ	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Sodium Hypochlorite	7681-52-9	Not Applicable	Not Applicable
Sodium Hydroxide	1310-73-2	Not Applicable	Not Applicable

Canada

WHMIS hazard class:
 E Corrosive material

Components
 Water

Sodium Hypochlorite

Sodium Hydroxide

WHIMHAZ

Uncontrolled product according to WHMIS classification criteria

C E F

E 4%, 6%, 12%

E including 0.04% in aqueous solution, 0.08%, 0.4% in aqueous solution, 2%, 2.5%, 4% in aqueous solution, 5%,

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10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Sodium Hypochlorite	1 %
Sodium Hydroxide	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Sodium Hypochlorite	7681-52-9	Present	Not Listed
Sodium Hydroxide	1310-73-2	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Sodium Hypochlorite	7681-52-9	Not listed
Sodium Hydroxide	1310-73-2	Not listed

Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	7732-18-5	Not listed
Sodium Hypochlorite	7681-52-9	Not listed
Sodium Hydroxide	1310-73-2	Not listed

EU Classification

R-phrases(s)

- R31 - Contact with acids liberates toxic gas.
- R34 - Causes burns.
- R50 - Very toxic to aquatic organisms.

S -phrase(s)

- 28A - After contact with skin, wash immediately with plenty of water.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S50A - Do not mix with acids
- S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
- S 1/2 - Keep locked up and out of the reach of children.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Water	7732-18-5		No information	
Sodium Hypochlorite	7681-52-9	R31 C; R34 N; R50	5%<=C: R:31	S1/2 S28 S45 S50 S61
Sodium Hydroxide	1310-73-2	C; R35	5%<=C: C; R:35 2%<=C<5%: C; R:34 0.5%<=C<2%: Xi; R:36/38	S1/2 S26 S37/39 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

- C - Corrosive.
- N - Dangerous for the environment.



16. OTHER INFORMATION

Preparation Date: 1/07/2014
Revision Date: 8/19/2016
Prepared by: Sonia Owen

Disclaimer:

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End of Safety Data Sheet