



COMPANY IDENTITY: Cascade Columbia Distribution Company  
PRODUCT IDENTITY: SODIUM HYPOCHLORITE 12.5%

SDS DATE: 05/26/2015  
ORIGINAL: 05/26/2015

**SAFETY DATA SHEET**

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.  
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
IMPORTANT: Read this SDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**

PRODUCT IDENTITY: SODIUM HYPOCHLORITE 12.5%  
SYNONYMS: Bleach, Hypo, Hypochlorite, Liquid Chlorine Solution  
PRODUCT USES: Laundry

COMPANY IDENTITY: Cascade Columbia Distribution Company  
COMPANY ADDRESS: 6900 Fox Avenue S.  
COMPANY CITY: Seattle, WA 98108  
COMPANY PHONE: 1-206-761-2351  
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)  
CANUTEC: 1-611-996-6666 (CANADA)

**SECTION 2. HAZARDS IDENTIFICATION  
DANGER!!**

**2.1 HAZARD STATEMENTS: (CAT = Hazard Category)**

- (H200s) PHYSICAL: Corrosive To Metals(CAT:1)  
**H290 MAY BE CORROSIVE TO METALS.**
- (H300s) HEALTH: Acute Toxicity, Oral(CAT:4)  
**H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.**
- (H300s) HEALTH: Serious eye damage/eye irritation (CAT:1)  
**H318 CAUSES SERIOUS EYE DAMAGE**
- (H300s) HEALTH: Specific target organ toxicity, single exposure (CAT:3)(respiratory tract irritation)  
**H335 MAY CAUSE RESPIRATORY IRRITATION**



**2.2 PRECAUTIONARY STATEMENTS:**

- P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal**
- P234 Keep only in original container.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash with soap & water thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+331+330+312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a Poison Center/doctor if you feel unwell.
- P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340+312 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- 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 or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.
- P403+233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P406 Store in corrosive resistant container with resistant inner liner.
- P500 Dispose of contents/container following local/regional/federal regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Sodium hypochlorite	7681-52-9	231-668-3	12.5
Sodium Hydroxide	1310-73-2	215-185-5	0.2%

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1).

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).  
**SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.**

### SECTION 4. FIRST AID MEASURES

#### 4.1 GENERAL ADVICE:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

#### 4.2 EYE CONTACT:

Immediately flush eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. Minimum flushing is for 15 minutes. Seek medical attention immediately.

#### 4.3 SKIN CONTACT:

Immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Seek medical attention immediately. Wash contaminated clothing before reuse, discard contaminated shoes.

#### 4.4 INHALATION:

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately provide artificial respiration. DO NOT use mouth-to-mouth method if victim inhaled substance. Induce artificial respiration with aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Seek immediate medical attention.

#### 4.5 SWALLOWING:

If swallowed, CALL PHYSICIAN POISON CONTROL CENTER IMMEDIATELY. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth resuscitation (see 4.4). Never give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

#### 4.6 NOTES TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION 5. FIRE FIGHTING MEASURES

### 5.1 FIRE & EXPLOSION PREVENTIVE MEASURES

Isolate from acids, oxidizers, extreme heat and open flame.

### 5.2 EXTINGUISHING MEDIA

Use water fog, foam, dry chemical powder, carbon dioxide.

### 5.3 SPECIAL FIRE FIGHTING PROCEDURES

Cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Wear Self-Contained Breathing Apparatus. No skin surface should be exposed.

### 5.4 UNUSUAL EXPLOSION AND FIRE PROCEDURES

May decompose, generating irritating chlorine gas. Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause explosion with release of toxic gases.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PROTECTIVE MEASURES:

Keep unprotected personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

### 6.2 ENVIRONMENTAL PRECAUTIONS:

Keep from entering storm sewers and ditches which lead to waterways.

### 6.3 CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain. Sweep spilled material into dry, sealable containers. Wash away remainder with plenty of water. Clean surface thoroughly to remove residual contamination. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

## SECTION 7. HANDLING AND STORAGE

### 7.1 HANDLING

Use caution when combining with water. DO NOT add water to caustic. ALWAYS add caustic to water while stirring to minimize heat generation. Put on appropriate personal protective equipment (See Section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, smoking and using the toilet facilities. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Do not reuse container. Isolate from oxidizers, heat, & open flame. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse. Mixing this product with ammonia, acids, detergents, etc. or with organic materials, e.g. feces, urine, etc. will release chlorine gas, which is irritating to eyes, lungs, and mucous membranes.

### 7.2 STORAGE

Store in original container protected from direct sunlight to maintain hypochlorite strength. Store in a dry, cool and well-ventilated area, away from incompatible materials (See Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Keep containers upright to prevent leakage. Do not allow to freeze. If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition).

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Sodium hypochlorite	7681-52-9	231-668-3		
Sodium Hydroxide	1310-58-3	215-181-3	None Known	None Known

MATERIAL	CAS#	EINECS#	CEILING	STEL(OSHA/ACGIH)	HAP
Sodium hypochlorite	7681-52-9	231-668-3		None Known	
Sodium Hydroxide	1310-58-3	215-181-3	2 ppm	None Known	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

**8.1 RESPIRATORY EXPOSURE CONTROLS**

Avoid breathing vapor or mist. Maintain airborne contaminant concentrations below exposure limits given above. Use Local exhaust ventilation to maintain these levels. When airborne exposure limits are exceeded, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus.

**8.2 EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS**

Positive pressure, full-face piece Self-Contained Breathing Apparatus; or positive pressure, full-face piece Self-Contained Breathing Apparatus with an auxilliary positive pressure Self-Contained Breathing Apparatus.

**8.3 VENTILATION**

LOCAL EXHAUST: Necessary                      MECHANICAL (GENERAL): Necessary  
SPECIAL: None                                      OTHER: None  
Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

**8.4 EYE PROTECTION:**

Splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

**8.5 HAND PROTECTION:**

Use gloves chemically resistant to this material. Preferred examples: Butyl rubber, Neoprene, or Nitrile.

**8.6 BODY PROTECTION:**

Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from impervious materials when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse.

**8.7 WORK & HYGIENIC PRACTICES:**

Provide readily accessible eye wash stations & safety showers. Wash at end of each shift & before eating, smoking or using the toilet. Remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Greenish yellow liquid
ODOR:	Pungent
ODOR THRESHOLD:	0.9 mg/m <sup>3</sup>
pH (Neutrality):	11.2-11.4 (1% solution)
MELTING POINT/FREEZING POINT:	-23.3 C / -10 F
BOILING RANGE (IBP, Dry Point):	Decomposes at 110 C / 230 F
FLASH POINT (TEST METHOD):	Not Applicable
EVAPORATION RATE (n-Butyl Acetate=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Non-Combustible
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Applicable
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C (68 F)	12.1
VAPOR DENSITY (air=1):	2.61
GRAVITY @ 68/68 F / 20/20 C:	
DENSITY:	1.2 g/mL or 10 lb/gal @20 C (68 F)
SPECIFIC GRAVITY (Water=1):	1.2 g/mL or 10 lb/gal @20 C (68 F)
POUNDS/GALLON:	10 lbs/gal
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Applicable
DECOMPOSITION TEMPERATURE:	110 C / 230 F
VOCs (>0.044 Lbs/Sq In) :	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
TOTAL VOC'S (TVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.0
VISCOSITY @ 20 C (ASTM D445):	1.75 - 2.50 centipoises (varies with T)

\* Using CARB (California Air Resources Board Rules).

## SECTION 10. STABILITY & REACTIVITY

### 10.1 STABILITY

Stable under normal conditions.

All bleach decomposition is dependent on temperature. For any given temperature, the higher the strength, the faster it decomposes. In summary, for every 10 C increase in storage temperature, the sodium hypochlorite will decompose at an increased rate factor of approximately 3.5.

Condition of instability include high heat, ultraviolet light.

### 10.2 CONDITIONS TO AVOID

High heat, direct sunlight.

### 10.3 MATERIALS TO AVOID

Oxidizing agents, acids, nitrogen-containing organics, metals, iron, copper, nickel, cobalt, organic materials, and ammonia.

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS

Rate of decomposition increases with heat. May develop chlorine gas if mixed with acidic solutions.

### 10.5 HAZARDOUS POLYMERIZATION

Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 ACUTE HAZARDS

#### 11.1.0 TOXICITY:

When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact.

#### 11.1.1 EYE & SKIN CONTACT:

Severe burns to skin, defatting, dermatitis.  
Severe burns to eyes, redness, tearing, blurred vision.  
Permanent eye damage including blindness could result.

#### 11.1.2 INHALATION:

Severe respiratory tract irritation may occur.

#### 11.1.3 SWALLOWING:

Harmful or fatal if swallowed.

### 11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### CONDITIONS AGGRAVATED:

None Known.

### 11.3 CHRONIC HAZARDS

#### 11.3.1 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

11.3.2 TARGET ORGANS: May cause damage to skin, eye, and respiratory system, based on animal data.

11.3.3 IRRITANCY OF PRODUCT: This product is irritating to contaminated tissue.

11.3.4 SENSITIZATION TO THE PRODUCT: No component of this product is known as a sensitizer.

11.3.5 MUTAGENICITY: No known reports of mutagenic effects in humans.

11.3.6 EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.

11.3.7 TERATOGENICITY: No known reports of teratogenic effects in humans.

11.3.8 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (such as: within the eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

### 11.4 MAMMALIAN TOXICITY INFORMATION

Oral --- LD50 - Rat - 3-5 g/kg  
Dermal - LD50 - Rabbit -- >2 g/kg

### SECTION 12. ECOLOGICAL INFORMATION

12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

Sodium hypochlorite is low in toxicity to avian wildlife, but is highly toxic to freshwater fish and invertebrates.

12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

Atlantic Herring (*Clupea Harengus*): LC50 = 0.033 - 0.097 mg/l/96 hr, flow through bioassay (pH:8)  
Water Flea (*Ceriodaphnia* sp. 0) LC50 = 0.006 mg/l/24 hr

12.4 MOBILITY IN SOIL

Mobility of this material has not been determined.

12.5 DEGRADABILITY

This product is completely biodegradable.

12.6 BIOACCUMULATION

In fresh water, sodium hypochlorite breaks down rapidly into non-toxic compounds when exposed to sunlight. In seawater, chlorine levels decline rapidly; however hypobromite (which is acutely toxic to aquatic organisms) is formed.

### SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal. Empty containers may contain residues. Follow all label warnings even after container is emptied.  
**ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.**

### SECTION 14. TRANSPORT INFORMATION

MARINE POLLUTANT: No  
DOT/TDG SHIP NAME: UN1791, Hypochlorite solutions, 8, PG-III  
DRUM LABEL: (CORROSIVE)  
IATA / ICAO: UN1791, Hypochlorite solutions, 8, PG-III  
IMO / IMDG: UN1791, Hypochlorite solution, 8, PG-III  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 154

### SECTION 15. REGULATORY INFORMATION

15.1 EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health

All components of this product are on the TSCA list.

This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

SARA TITLE III INGREDIENTS	CAS#	EINECS#	WT%	(REG. SECTION)	RQ(LBS)
Sodium hypochlorite	1310-73-2	215-185-5	25-50	(311,312)	100

**SECTION 15. REGULATORY INFORMATION (CONTINUED)**

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

**15.2 STATE REGULATIONS:**

**CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):**

This product is not listed, but it may contain impurities/trace elements (in amounts of less than 0.1%) which are known to the State of California to cause cancer or reproductive toxicity under Proposition 65, State Drinking Water and Toxic Enforcement Act.

**15.21 U.S. STATE REGULATED COMPONENTS: (HAZARDOUS SUBSTANCE LISTS):**

COMPONENT	AK	CA	FL	IL	KS	MA	MI	MN
Sodium Hypochlorite		No				Yes	Yes	
Sodium Hydroxide	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

COMPONENT	MO	NJ	ND	PA	RI	TX	WV	WI
Sodium Hypochlorite		Yes		Yes				
Sodium Hydroxide	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**NOTE: Absence of a state from this list does not mean the material is not regulated.**

**15.3 INTERNATIONAL REGULATIONS**

The identified components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

**15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)**

Health effects criteria met by this chemical:

E- Corrosive to skin

E - TDG class 8 - corrosive substance

E: Corrosive Material.

Ingredient Disclosure List: Included for disclosure at 1% or greater.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by the CPR.



**SECTION 16. OTHER INFORMATION**

**16.1 HAZARD RATINGS:**

HEALTH (NFPA): 2, HEALTH (HMIS): 2, FLAMMABILITY: 0, PHYSICAL HAZARD: 1  
(Personal Protection Rating to be supplied by user based on use conditions.)  
This information is intended solely for the use of individuals  
trained in the NFPA & HMIS hazard rating systems.

**16.2 EMPLOYEE TRAINING**

See Section 2 for Risk & Safety Statements. Employees should be made aware  
of all hazards of this material (as stated in this SDS) before handling it.

**16.3 SDS DATE: 05/26/2015**

**NOTICE**

The supplier disclaims all expressed or implied warranties of merchantability or fitness  
for a specific use, with respect to the product or the information provided herein,  
except for conformation to contracted specifications. All information appearing herein  
is based upon data obtained from manufacturers and/or recognized technical sources.  
While the information is believed to be accurate, we make no representations as to its  
accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for  
verifying the data under their own operating conditions to determine whether the product  
is suitable for their particular purposes and they assume all risks of their handling,  
and disposal of the product. Users also assume all risks in regards to the publication  
or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to  
its use in combination with any other material or process.