

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 SOLUTION
CHEMICAL NAME: Sodium Hypochlorite 12.5%
SYNONYMS: Bleach
PRODUCT USES: Refer to the label regarding product usage.
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

2.1 HAZARDS IDENTIFICATION:

Corrosive to Metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity, single exposure; Respiratory tract irritation	Category 3
Hazardous to the aquatic environment, acute hazard	Category 1

2.2 LABEL ELEMENTS:

GHS PICTOGRAM

Signal Word: **DANGER!**



Hazard Statement:

H290: MAY BE CORROSIVE TO METALS.
H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H318: CAUSES SERIOUS EYE DAMAGE.
H335: MAY CAUSE RESPIRATORY IRRITATION.
H400: VERY TOXIC TO AQUATIC LIFE.

2.3 PRECAUTIONARY STATEMENTS:

Prevention:

P234: Keep only in original container.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P273: Avoid release to the environment.

Response:

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 + P351 + P338: 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.
P391: Collect spillage.

Storage and Disposal:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P406: Store in corrosive resistant container with resistant inner liner.
P501: Dispose of contents/container following local/regional/federal regulations

2.4 Hazards not Otherwise Classified:

Hazards to humans and domestic animals. This pesticide is toxic to fish and aquatic organisms.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT%
SODIUM HYPOCHLORITE	7681-52-9	231-668-3	12.5
OTHER INGREDIENTS	N/A	N/A	87.5

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).

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 IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

4.3 IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

4.4 IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

4.5 IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

4.6 HOT LINE NUMBER:

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

4.7 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 PRECAUTIONS & EMERGENCY PROCEDURES:

- Keep unnecessary personnel away. Wear appropriate personal protective equipment.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Absorb spillage to prevent material damage.
- Local authorities should be advised if significant spillages cannot be contained.
- For personal protection, see Section 8 of the SDS.

6.2 ENVIRONMENTAL PRECAUTIONS:

- Do not discharge into drains, water courses or onto the ground.
- Environmental manager must be informed of all major releases.

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.
- Releases should be reported, if required, to appropriate agencies.

SECTION 7. HANDLING AND STORAGE

7.1 HANDLING

- Do not ingest.
- Avoid contact with skin or eyes.
- Avoid inhalation of vapor or mist.
- Wear protective equipment if necessary.
- Mix only with water in accordance with label directions.
- 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 HYGIENE MEASURES

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- While handling this product, avoid eating, drinking or smoking.

7.3 STORAGE

- Do not freeze.
- Store in a cool, dry, well-ventilated area, away from direct sunlight and heat to avoid deterioration.
- Inside storage should be in a cool, dry, well-ventilated area.
- To maintain hypochlorite strength, do not store in direct or heated indoor areas.
- Keep this product in a tightly closed vented container when not in use.
- Do not store adjacent to chemicals that may react if spillage occurs.
- If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS:

- Local exhaust ventilation to maintain levels below STEL (Short Term Exposure Limit) of 1ppm as chlorine.

8.2 PERSONAL PROTECTION:

- **Eye/Face Protection:** Wear safety glasses, goggles or face shield to prevent eye contact.
- **Skin Protection:** Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Butyl rubber, Neoprene, or Nitrile Gloves should be worn when handling this material. Wear chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse.
- **Respiratory Protection:** Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and chemical goggles. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive pressure, self-contained breathing apparatus.

- **Other Safety Equipment:** Eye wash facility and emergency shower should be in close proximity.

8.3 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)	AIHA/WEEL
SODIUM HYPOCHLORITE	7681-52-9	231-668-3	No data	No data	2mg/m3: 15 min
SODIUM HYDROXIDE	1310-58-3	215-181-3	No data	No data	No data

8.4 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 color
ODOR:	Pungent
ODOR THRESHOLD:	0.9 mg/m ³
pH:	11.2-11.4 (1% solution)
MELTING/FREEZING POINT:	-23.3°C / -10°F
BOILING Point RANGE:	Not Available
FLASH POINT (TEST METHOD):	Not Applicable
EVAPORATION RATE (n-Butyl Acetate=1):	Not Available
FLAMMABILITY (solid, gas) CLASSIFICATION:	Not Flammable
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg) @20°C	12.1 mmHg @ 20°C (68°F)
VAPOR DENSITY (air=1):	2.61
RELATIVE DENSITY @ 20°C (68°F):	1.2 g/ml
SPECIFIC GRAVITY (Water=1):	1.2
POUNDS/GALLON:	10
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Applicable
DECOMPOSITION TEMPERATURE:	110°C / 230°F
VISCOSITY:	1.75-2.50 centipoises (varies with temp)
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 Vol% / 0.0 g/L / 0.000 Lbs/Gal
* Using CARB (California Air Resources Board Rules).	

SECTION 10. STABILITY & REACTIVITY

10.1 STABILITY / DECOMPOSITION:

- 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.

10.2 CONDITIONS TO AVOID:

- Condition of instability include high heat, ultraviolet light, direct sunlight.

10.3 INCOMPATIBLE MATERIALS:

- 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 occurs

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 ACUTE HAZARDS:

Primary Route of Exposure: Inhalation by aerosol.

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. Causes sore throat, burning sensation, vomiting, abdominal pain, and diarrhea.

11.2 CHRONIC/SUBCHRONIC HAZARDS:

- Based on the toxicity profile and exposure scenarios for sodium hypochlorite, EPA concludes that the risks from chronic and subchronic exposure to low levels of these pesticides are minimal and without consequence to human health.

11.3 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

Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. This product can be neutralized with sodium bisulfite, sodium thiosulfate, sodium sulfite. Do not confuse these products with sulfates or bisulfates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination system (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not contaminate water containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Dispose of in accordance with all applicable local, County, State, and Federal regulations.

SECTION 14. TRANSPORT INFORMATION

MARINE POLLUTANT: YES

DOT/TDG SHIP NAME: UN1791, HYPOCHLORITE SOLUTIONS (SODIUM HYPOCHLORITE), 8, PG III, MARINE POLLUTANT

DRUM LABEL: UN1791, HYPOCHLORITE SOLUTIONS (SODIUM HYPOCHLORITE), 8, PG III, MARINE POLLUTANT

IATA / ICAO: UN1791, HYPOCHLORITE SOLUTIONS (SODIUM HYPOCHLORITE), 8, PG III, MARINE POLLUTANT

IMO / IMDG: UN1791, HYPOCHLORITE SOLUTIONS (SODIUM HYPOCHLORITE), 8, PG III, MARINE POLLUTANT

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 154

No Shipping information is required for packaged under 1.3 gallons

SECTION 15. REGULATORY INFORMATION

15.1 EPA REGULATION:

EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act): EPA Registered No.10897-26-73015. This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. (Registered pesticide under 40 CFR 152.10)

SARA SECTION 311/312 HAZARDS: Acute Health

All components of this product are on the TSCA list.

This material contains the following listed 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

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.

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: 04/15/2019

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

COMPANY IDENTITY: Cascade Columbia Distribution Company
PRODUCT IDENTITY: SODIUM HYPOCHLORITE SOLUTION

SDS DATE: 04/15/2019
ORIGINAL: 06/08/2017

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.