

## SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements 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: CAUSTIC SODA (TECHNICAL GRADE) 25-50%  
SYNONYM: Sodium Hydroxide, Alkali, Lye, Soda Lye, Sodium Hydrate, Membrane Caustic Soda  
PRODUCT USES: Glass production, cleaner, process cleaner, petroleum industry  
RESTRICTIONS: Professional use only  
COMPANY IDENTITY: Cascade Columbia Distribution Company  
COMPANY ADDRESS: 6900 Fox Avenue S.  
COMPANY CITY: Seattle, WA 98108  
COMPANY PHONE: 1-206-763-2351  
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)  
CANUTEC: 1-613-996-6666 (CANADA)

### SECTION 2. HAZARDS IDENTIFICATION

**SIGNAL WORD: 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)  
**H300 HARMFUL IF SWALLOWED.**  
(H300s) HEALTH: Skin Corrosion/Irritation(CAT:1)  
**H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.**  
(H300s) Serious eye damage/eye irritation (CAT:1)  
**H318 CAUSES SERIOUS EYE DAMAGE**  
(H300s) HEALTH: Acute Toxicity, Inhalation(CAT:4)  
**H332 HARMFUL IF INHALED.**  
(H400s) Hazardous to the Aquatic Environment - Long-Term Hazard(CAT:3)  
**H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.**

#### 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.  
P270 Do not eat, drink or smoke when using this product.  
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.  
P405 Store locked up.  
P406 Store in corrosive resistant container with resistant inner liner.  
P500 Dispose of contents/container following local/regional/federal regulations.

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ORIGINAL: 02/05/2016

**2.3 HAZARDS NOT OTHERWISE CLASSIFIED:** None

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 MIXTURE OR SUBSTANCE:** Mixture

CHEMICAL NAME	CAS#	EINECS#	WT %
WATER	7732-18-5	231-791-2	50-75
SODIUM HYDROXIDE	1310-73-2	215-185-5	25-50

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 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & CHRONIC:**

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.

See Section 11 for symptoms/effects, acute & chronic.

**4.2 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.

**4.3 EYE CONTACT:**

If this product enters the eyes, check for and remove any contact lenses. Open 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 immediate medical attention.

**4.4 SKIN CONTACT:**

If the product contaminates the skin, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. Seek medical attention. Wash contaminated clothing before reuse, discard contaminated shoes.

**4.5 INHALATION:**

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. Seek immediate medical attention.

**4.6 SWALLOWING:**

If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

#### **4.7 RESCUERS:**

Victims of chemical exposure must be taken for medical attention. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Symptoms may be delayed. Take a copy of label and SDS to physician or health professional with victim.

#### **4.8 NOTES TO PHYSICIAN:**

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation). Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

### **SECTION 5. FIRE FIGHTING MEASURES**

#### **5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:**

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

#### **5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:**

Use water fog, foam, dry chemical powder, carbon dioxide. Use extinguishing agent suitable to the surrounding fire. Do not use halogenated extinguishing agents.

#### **5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:**

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 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:**

Closed containers may burst if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.  
May decompose upon heating to produce corrosive and/or toxic fumes. Contact with metal may release flammable hydrogen gas.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:**

Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Stop leak if you can do it without risk. Prevent additional discharge of material, if possible to do so without hazard. For large spills, implement cleanup procedures and, if in public area, advise authorities.

#### **6.2 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, EMERGENCY PROCEDURES:**

The proper personal protective equipment for incidental releases (such as: 1 Liter of the product released in a well-ventilated area), use impermeable gloves, they should be Level B: **chemical resistant gloves, suit and boots, hard-hat, and Self-Contained Breathing Apparatus** specific for the material handled, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material

handled, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations. Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

#### **6.3 ENVIRONMENTAL PRECAUTIONS:**

Stop spill at source. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Clean surface thoroughly to remove residual contamination. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

#### **6.4 METHODS AND MATERIAL FOR CONTAINMENT & CLEAN-UP:**

Dike far ahead of liquid spill for later disposal. Absorb spilled liquid with soda ash or lime. Use non-combustible absorbent(such as: sand, soil, etc.). Shovel up and place all spill residue in suitable containers. Clean contaminated surfaces thoroughly. Dispose of residue at an appropriate waste disposal facility according to applicable laws and regulations and product characteristics at time of disposal (see Section 13 - Disposal Considerations).

### **SECTION 7. HANDLING AND STORAGE**

#### **7.1 PRECAUTIONS FOR SAFE HANDLING:**

Use only with adequate ventilation. Do not get in eyes, on skin or clothing. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse. Continue all label precautions! DO NOT add water to caustic. ALWAYS add caustic to water while stirring to minimize heat generation. When dissolving or diluting, always add it slowly to the water.

#### **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight 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. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not allow to freeze. Compatible storage materials may include, but not be limited to, the following: nickel and nickel alloys, steel, plastics, plastic or rubber-lined steel, FRP, or Derakane vinyl ester resin. Use appropriate containment to avoid environmental contamination.

#### **7.3 NONBULK: CONTAINERS:**

Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers should be handled with care. Never store food, feed, or drinking water in containers which held this product.

#### **7.4 BULK CONTAINERS:**

All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

#### **7.5 TANK CAR SHIPMENTS:**

Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's recommendation and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment.). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cars must be level, brakes must be set or wheels must be locked or blocked prior to loading or unloading. Tank car (for loading) or storage tanks (for unloading) must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be in the correct positions, before starting transfer operations. A sample (if required) must be taken and verified (if required) prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car or vessel.

#### 7.6 PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Collect all rinsates and dispose of according to applicable Federal, State, Provincial, or local procedures.

#### 7.7 EMPTY CONTAINER WARNING:

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH.**

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 EXPOSURE LIMITS:

CHEMICAL NAME	CAS#	OSHA PEL	NIOSH	ACGIH TLV	IDLH
Sodium Hydroxide	1310-73-2	TWA: 2 mg/m <sup>3</sup>	REL-C: 2mg/ m <sup>3</sup>	TLC-C: 2mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

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

#### 8.2 APPROPRIATE ENGINEERING CONTROLS:

##### RESPIRATORY EXPOSURE CONTROLS

Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations, after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown. Maintain airborne contaminant concentrations below exposure limits. If adequate ventilation is not available or there is potential for airborne exposure above the exposure limits, a respirator may be worn up to the respirator exposure limitations, check with respirator equipment manufacturer's recommendations/limitations. For particulates, a particulate respirator (NIOSH Type N95 or better filters) may be worn. If oil particles (such as: lubricants, cutting fluids, glycerine and so on) are present, use a NIOSH Type R or P filter. For a higher level of protection, use positive pressure

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supplied air respiration protection or Self-Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

#### 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.

#### 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.

### 8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

#### EYE PROTECTION:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, chemical splash goggles should be worn, when a higher degree of protection is necessary, use splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

#### HAND PROTECTION:

Use gloves chemically resistant to this material. Preferred examples: Butyl rubber, Chlorinated Polyethylene, Polyethylene, Ethyl vinyl alcohol laminate ("EVAL"), Polyvinyl alcohol ("PVA"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber ("nitril") or ("NBR"), Polyvinyl chloride ("PVC") or "vinyl"), Viton. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### BODY PROTECTION:

Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from impervious materials are generally acceptable, depending on the task.

#### WORK & HYGIENIC PRACTICES:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using toilet facilities and at the end of the working period. Provide readily accessible eye wash stations & safety showers. Remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Water-White
ODOR:	None
ODOR THRESHOLD:	Not Available
pH (Neutrality):	14.0
MELTING POINT/FREEZING POINT:	-12 C/10 F (25% NaOH), 10 C/53 F (50% NaOH)
BOILING RANGE (IBP,Dry Point):	130-140 C/ 266-284 F (50% NaOH)
FLASH POINT (TEST METHOD):	Not Applicable

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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 Applicable
VAPOR PRESSURE (mm of Hg)@21°C:	23.76 (50% NaOH)
VAPOR DENSITY (air=1):	0.670
DENSITY:	1.26 (25%), 1.525 (50%)
SPECIFIC GRAVITY (Water=1):	1.27 (25%), 1.525 (50%)
POUNDS/GALLON:	10.58 (25%), 12.74 (48%)
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Applicable
DECOMPOSITION TEMPERATURE:	Not Available
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):	Not Available

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

## SECTION 10. STABILITY & REACTIVITY

### 10.1 REACTIVITY & CHEMICAL STABILITY:

Stable under normal conditions.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:

Reacts violently with strong acids. This product may react with oxidizing agents. Avoid mixing with water, acid, or incompatible materials which may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

### 10.3 INCOMPATIBLE MATERIALS:

Oxidizing agents, acids, phosphorous, aluminum, zinc, tin. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

Sodium Oxide & Hydroxide from heating. Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.

### 10.5 HAZARDOUS POLYMERIZATION:

Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 ACUTE HAZARDS

Likely Routes of Exposures: Inhalation & Absorption (Eye/Skin Contact)

#### 11.1.1 EYE & SKIN CONTACT:

Severe burns to skin, defatting, dermatitis. Wash thoroughly after handling. Permanent eye damage including blindness could result.

#### 11.1.2

Liquid causes severe burns to eyes resulting in redness, tearing, and blurred vision.

#### 11.1.3 INHALATION:

Severe respiratory tract irritation may occur.

#### 11.1.4 SWALLOWING:

Harmful or fatal if swallowed. May cause permanent damage to the digestive tract.

### 11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Pre-existing disorders of any target organs mentioned in this Document can be aggravated by over-exposure by routes of entry to components of this product. Persons with these disorders should avoid use of this product.

**11.3 CHRONIC HAZARDS**

**11.3.1 CARCINOGENICITY:**

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 target organs, based on animal data.

**11.3.3 IRRITANCY:** Toxic to contaminated tissue.

**11.3.4 SENSITIZATION:** No component 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 across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 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**

**SODIUM HYDROXIDE:**

Eye irritancy (monkey): 1%, 24 hours (severe)

Eye irritancy (rabbit): 500 ml, 24 hours (severe)

Eye irritancy (rabbit): 1% solution (severe)

Eye irritancy (rabbit): 1 mg, 24 hours (severe)

Cytogenic analysis system (grasshopper parenteral): 20 mg

LD50 (interperoneal, mouse): 40 mg/kg

LDLo (oral, rabbit): 500 mg/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:**

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

**12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:**

LC50 / 96 hours: 196 mg/L (Poecilia reticulata, Marine water)

**12.4 MOBILITY IN SOIL**

Mobility of this material has not been determined.

**12.5 DEGRADABILITY**

This product is completely biodegradable.

**12.6 ACCUMULATION**

Bioaccumulation of this product has not been determined.

**SECTION 13. DISPOSAL CONSIDERATIONS**



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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. EPA CHARACTERISTIC: D002**

## SECTION 14. TRANSPORT INFORMATION

MARINE POLLUTANT: No  
DOT/TDG SHIP NAME: UN1824, Sodium hydroxide solution, 8, PG-II  
DRUM LABEL: (CORROSIVE)  
CONTAINER LABEL: UN1824, Sodium hydroxide solution, 8, PG-II  
IATA / ICAO: UN1824, Sodium hydroxide solution, 8, PG-II  
IMO / IMDG: UN1824, Sodium hydroxide solution, 8, PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 154

## SECTION 15. REGULATORY INFORMATION

### 15.1 REGULATORY INFORMATION:

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE (EHS): Not Listed

SARA 304: Not Applicable

SARA SECTION 311/312 HAZARDS: Acute Health

SARA 313: Not Listed

All components of this product are on the TSCA inventory.

#### SARA Title III Section 313 Supplier Notification

This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372.

This information must be included in all SDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	CERCLA RQ(LBS)	THRESHOLD PLANNING QUANTITY (LBS)
*Sodium Hydroxide	1310-73-2	1,000	Not Available

### 15.2 STATE REGULATIONS:

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

This product does not contains any chemicals known to the State of California to cause cancer, developmental toxicity, or reproductive toxicity.

### 15.3 INTERNATIONAL REGULATIONS

The identified components of this product are either listed or exempted 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)

D2B: Irritating to skin / eyes.

E: Corrosive Material.

This product was classified using the hazard criteria of the Controlled Products Regulations (CPR). This Document contains all information required by the CPR.

## SECTION 16. OTHER INFORMATION

### 16.1 HAZARD RATINGS:

HEALTH (NFPA): 3, HEALTH (HMIS): 3, FLAMMABILITY: 0, PHYSICAL HAZARD: 1

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(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: 04/29/2020**

### **NOTICE**

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