

Safety Data Sheet Alliance Group, Inc

CST-10

Revision Date: 4/10/2015

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SDS Number: 0158

PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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Alliance Group, Inc. 800-648-7339 N114 W18621 Clinton Drive Germantown, WI 53022

 Contact:
 CHEMTEL

 Phone:
 1-800-255-3924

Product Name:CST-10Revision Date:4/10/2015SDS Number:0158Common Name:Sodium HydroxideProduct Code:0158Product Use:Water Treatment Compound

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HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 1 Health, Serious Eye Damage/Eye Irritation, 1 Physical, Oxidizing Liquids, 3 Environmental, Hazards to the aquatic environment - Acute, 3

GHS Label elements, including precautionary statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H272 May intensify fire; oxidizer
- H402 Harmful to aquatic life

GHS Precautionary Statements:

- P234 Keep only in original container.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

- P315 Get immediate medical advice/attention.
- P337 If eye irritation persists: Get medical advice / attention
- P353 Rinse skin with water/shower.
- P363 Wash contaminated clothing before reuse.
- P501 Dispose of contents/container to an approved waste disposal plant.



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Hazards not otherwise classified (HNOC) or not covered by GHS

Route of Entry:	Eyes; Inhalation; Ingestion; Skin.
Target Organs:	Respiratory system; Eyes; Skin.
Inhalation:	Can cause severe irritation and inflammation of the respiratory tract.
Skin Contact:	May cause irritation, tearing and redness.
Eye Contact:	May cause irritation. May cause permanent eye damage.
Ingestion:	Aspiration hazard: Harmful or fatal if swallowed.

HMIS III: Health = 3(Chronic), Fire = 0, Physical Hazard = 1

HMI	S	
HEALTH		3
FLAMMABILIT	Y	0
PHYSICALHAZA	ARD	1
PERSONAL PROT	ECTION	

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Substance/Mixture: Mixture

Cas# % Chemical Name

7632-00-0	<15%	Sodium nitrite
1330-43-4	<15%	Sodium Tetraborate
1310-73-2	<5%	Sodium hydroxide

FIRST AID MEASURES

Inhalation:	If symptoms develop, move victim to fresh air. Give oxygen or artificial respiration if needed. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contact:	Promptly flush skin with water for 15 minutes. Remove contaminated clothing immediately. Get immediate medical attention. Do not reuse clothing and shoes until cleaned. Discard leather articles such as shoes and belt. Do not apply oils and ointments unless ordered by a physician.
Eye Contact:	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.
Ingestion:	Drink large quantities of water. Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips.

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FIRE FIGHTING MEASURES

Flammability:	Not flammable or combustible.
Flash Point:	Not applicable
Autoignition Temp:	Not applicable
Fire Fighting Methods	

Evacuate area of unprotected personnel. Wear protective clothing including NIOSH Approved self- contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers and disperse



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vapors.

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Unusual Fire or Explosion Hazards:

If evaporated to dryness, residue is an oxidizer and can stimulate or accelerate combustion of organic or other combustible materials. This product may react with certain metals to produce flammable hydrogen gas.

Extinguishing Media

Suitable: Water spray, alcohol- resistant foam, dry chemical, or carbon dioxide.

Unsuitable fire extinguisher: No data available. Do not use direct water stream

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ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

Spill

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Soak up with inert absorbent material and dispose of as hazardous waste. Remaining residue can be neutralized with hydrochloric acid and then disposed of properly. Keep in suitable, closed containers for disposal.

7	HANDLING AND STORAGE
Handling Precautions:	CORROSIVE - OXIDIZER. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not puncture or drop containers.Do not expose containers to open flame, excessive heat, or direct sunlight.
Storage Requirements:	Store in cool/dry area. Keep away from sunlight, heat, sparks, and flames. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Personal Protective Equipment:	 Provide local exhaust ventilation. Maintain adequate ventilation. Do not use in confined spaces. Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks at the end of workday. Respiratory Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Eyes and Face Wear chemical safety goggles while handling this product. Wear additional eye protection such as a shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material Skin Prevent contact with this product. Wear gloves and protective clothing depending on conditions of u Protective gloves: gauntlet-type, neoprene, nitrile. 		
Component	OSHA PEL	ACGIH TWA/ TLV	
Sodium Tetraborate	10 mg/m3	1 mg/m3	
Sodium Nitrite	Not established	Not established	
Sodium Hydroxide	Not established	2 mg/m3	



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PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, light yellow **Physical State:** Liauid **Odor Threshold:** No data available. Spec Grav./Density: 1.17 No data available. Viscosity: Boiling Point: No data available Flammability: No data available. Vapor Pressure: Not Determined pH: >12 Evap. Rate: No data available Decomp Temp: No data available.

Lower Explosion Limits: No data available. Upper Explosion Limits: No data available. Odor: Solubility: Percent Volatile: Freezing/Melting Pt.: Flash Point: Vapor Density: VOC: Auto-Ignition Temp:

Odorless Complete None 32°F No data available. Not Determined None No data available.

STABILITY AND REACTIVITY

Stability: Conditions to Avoid:	Product is stable under normal conditions. Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Dried residue increases the probability of oxidizing reactions.
Materials to Avoid:	Strong reducing agents, acids, strong oxidizing agents, organic materials, combustible materials, halogenated compounds
Hazardous Decomposition: Hazardous Polymerization:	Thermal decomposition may release: carbon monoxide, carbon dioxide, and oxides of nitrogen. Will not occur under normal conditions.

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TOXICOLOGICAL INFORMATION

Toxicity Data:

Eye Effects: Corrosive- Causes severe eye irritation and burns. May cause: blurred vision, redness, pain, conjuctivitis, ulcerations, tissue destruction, permanent eye damage, blindness.

Skin Effects: Corrosive- Causes severe irritation and burns. Concentrated solutions may cause: severe burns, severe necrosis, permanent skin damage. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin.

Inhalation Effects: Corrosive- Cause severe irritation and burns. Vapors and mists may damage: mucous membranes, respiratory tract. Vapors or mists may cause: coughing, sore throat, shortness of breath, labored breathing, choking, bronchiospasms, chemical pneumonitis, pulmonary edema, death. Effects may be delayed. Chronic exposure may cause: dental erosions, discoloration of teeth, bronchitis, and bronchial emphysema.

Ingestion Effects: Corrosive- Causes severe irritation and burns. May cause damage to the: mouth, throat, esophagus, stomach, gastrointestinal tract. May cause: pain, vomiting, diarrhea, bleeding, labored breathing, burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection, and death. Effects may be delayed. Aspiration into the lungs may cause chemical pneumonia and lung damage.

Chronic Effects:	Not Known.
Mutagenicity:	Not Known.
Teratogenicity:	Not Known.
Fertility Effects:	
(Sodium Tetraborate)	Reproductive Toxicity: suspected of damaging fertility

Carcinogenicity:

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IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

<u>Component</u>	Oral LD50	Dermal LD50	Inhalation LC50	
Sodium Tetraborate	Rat: 3200 mg/kg	Rabbit: >2000 mg/kg	No Data	
Sodium Nitrite	Rat: 157.9 mg/kg	No Data	No Data	
Sodium Hydroxide	Mouse:40 mg/kg	Rabbit: 1350mg/kg	No Data	

Acute Toxicity Estimate (ATE):

Inhalation Vapor: No data Inhalation Dust/Mist: No data

ECOLOGICAL INFORMATION

Biodegradability No data available

*Sodium nitrite (7632-00-0) [<5%]

Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.94 - 1.92 mg/l - 96.0 h mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 0.54 mg/l - 96.0 h Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - mg/l - 48 h.

*Borates, tetra, sodium salts (anhydrous) (1330-43-4) [<5%]

Toxicity to fish LC50 - other fish - 74 mg/l - 96 h.

*Sodium hydroxide (1310-73-2) [<25%]

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h. LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h Toxicity to daphnia and Immobilization EC50 - Daphnia - 40.38 mg/l - 48 h.

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DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

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TRANSPORT INFORMATION

UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, PGII, (Sodium Hydroxide, Sodium Nitrite)

DOT Proper Shipping Name: Corrosive liquid, basic, inorganic, nos DOT Technical Name: Sodium Hydroxide, Sodium Nitrite DOT Hazard Class: 8 DOT UN/NA Number: UN3266 Packing Group: II Reportable Quantity (RQ): N/A

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REGULATORY INFORMATION

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category: Immediate(Acute) Health Hazard: YES Delayed (Chronic) Health Hazard:YES Fire Hazard: NO Sudden Release of Pressure Hazard:NO Reactive Hazard: YES

SARA Section 302/304/313/HAP:

Component C	ERCLA RQ (LBS)	SARA RQ(LBS)	SARA TPQ(LBS) SAR/	A SEC 313	<u>US EPA HAP</u>
Sodium Hydroxide	1000	N/A	N/A	ŇO	NO	
Sodium Nitrite	100	N/A	N/A	YES	NO	
Sodium Tetraborat	e N/A	N/A	N/A	NO	NO	

STATE REGULATIONS

California- The following components are listed under Prop 65: None.

Wisconsin- The following components are listed as a Wisconsin HAP: Sodium Hydroxide. Borates

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OTHER INFORMATION

Publication Date: 4/10/2015 Prepared By: P May Reason for Revision: GHS Format

This information is given in good faith and based on our current knowledge of the product.

Disclaimer:

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