

LIQUID ALKALI

Issue Date: 03/04/24 Revision Date: 03/04/24 Version: 01

1. IDENTIFICATION

Product Name LIQUID ALKALI

Product Code

Recommended use and restrictions
Intended use Laundry additive
COMPANY IDENTIFICATION

A-1 Products

1235 E. Kennestone Cir.2020 Avenue F. EnsleyMarietta, GA 30066Birmingham, AL 35218

Phone (770) 428-5545 (205) 787-1403

Toll-Free (800) 969-7659

EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053

2. HAZARDS IDENTIFICATION

Hazard Classification

Corrosive to Metals
Serious Eye Damage
Category 1
Skin Corrosion
Category 1B
STOST - Single Exposure
Aquatic Environment
Category 3
Toxicity (Acute)

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Hazard Pictograms



Signal Word

DANGER!

Hazard Statements

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

Precautionary Statements

P260: Do not breathe dust/fumes/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301+312: IF SWALLOWED: 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.



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

P405: Store locked up.

P406: Store in a corrosive resistant and non-aluminum container with a resistant inner liner. (Note: flammable

hydrogen gas may be generated if aluminum container and/or aluminum fittings are used.)

P501: Dispose of contents/container to an approved waste disposal facility in accordance with

local/regional/national/international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature Metal alkoxide

Hazardous Ingredients and Impurities

Chemical Name	CAS#	Percentage
Sodium hydroxide	1310-73-2	50%

4. FIRST AID MEASURES

Description of first-aid measures

General Advice

- First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Show this material safety data sheet to the doctor in attendance.

In case of inhalation

Move affected individual to fresh air and keep comfortable for breathing. If not breathing, give artificial
respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.). If breathing is difficult,
oxygen should be administered by qualified personnel. Call a physician if necessary.

In case of skin contact

• In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Seek medical advice

In case of ingestion

• If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed

- Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
- Skin contact may aggravate an existing skin disease.

Notes to physician

- All treatments should be based on observed signs and symptoms of distress in the patient.
- Treat symptomatically.



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There is no antidote.

5. FIREFIGHTING MEASURES

Flash Point > 201°F (Pensky Marten Closed Cup)

Autoignition Temperature No data available

Flammability/Explosive No data available

<u>limit</u>

Extinguishing media

Suitable extinguishing media

- Water fog or spray
- Dry chemical fire extinguishers
- Foam
- Carbon dioxide CO₂

Unsuitable extinguishing media

None known

Special hazards arising from the substance or mixture

Specific hazards during fire fighting

• Hazardous decomposition products may form while on fire

Hazardous combustion products

• Oxides of sodium

Advice for fire fighters

Special protective for fire fighters

Wear a positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing

Firefighting methods

- Do not use a direct water stream as it may spread fire.
- Isolate fire and deny unnecessary entry. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Isolate area and deny unnecessary entry
- Wear suitable protective equipment.
- Refer to Section 8 "Exposure controls/ personal protection"
- Ventilate are of leak or spill

Environmental precautions

- Prevent spill material from entering soil, ditches, waterway or groundwater
- Spills may be reportable to the National Response Center and/or to state and local agencies

Methods and materials for containment and cleaning up

- Absorb material with sand, dirt, diatomaceous earth, vermiculite, etc...
- Shovel or sweep up material
- Place in a container for disposal according to local, state, or federal regulations



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7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment and observe good industrial hygiene practices.

Conditions for safe storage, including incompatibilities

- Store in the original container.
- Keep the container tightly closed when not in use.
- Keep away from open flames, hot surfaces, and ignition sources
- Keep away from any incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Due to variations in safety procedures, work environments, and handling practices, these recommendations should be viewed as general guidance. Most equipment manufactures can assist with the use and maintenance of worker protection equipment.

Control parameters

Component	Regulation	Type of Listing	Value
Sodium hydroxide	OSHA	TWA	2 mg/m3
	ACGIH	TWA	2 mg/m3

Exposure controls

Engineering measures

- Use engineering controls to keep airborne levels below exposure limits to minimize employee exposures.
- Effective exhaust ventilation system
- Eye wash facilities and emergency shower should be available when handling this product

Individual protection measures

- Eye/face protection: Safety glasses with side shields
- Skin/hand protection: Wear suitable protective gloves, clothing, and footwear.
- Respiratory protection: Wear suitable respiratory equipment in cases of insufficient ventilation. Select NIOSH.MSHA approved equipment in accordance to industrial recommendations or regulatory standards.

Hygiene measures

• Practice good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, smoking, applying cosmetics, or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical stateLiquidFormLiquidColorColorlessOdorNone

Odor Threshold No data available

pH14 @ 7.5%Melting/freezing point60°FBoiling point212°F



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Flash Point > 201°F (Pensky Marten Closed Cup)

Evaporation RateNo data availableFlammability (solid)No data availableFlammability (gas)No data availableFlammability (liquid)No data available

Upper/lower flammability or explosive limits

Lower (%)No data availableUpper (%)No data availableAutoignition temperatureNo data availableVapor pressureNo data availableVapor densityNo data available

Relative Density1.56 g/mlSolubilitySoluble (water)Partition coefficientNo data availableDecomposition temperatureNo data availableViscosityNo data availableVolatiles by volumeNo data available

10. STABILITY AND REACTIVITY

Reactivity Soluble in water, releasing heat sufficient to ignite combustibles. Reacts with

metals, and may form

hydrogen gas

<u>Chemical stability</u> Product is stable under normal conditions.

Mixing with water, acid, or incompatible materials 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.

Conditions to avoid Mixing with incompatible materials

Acids and halogenated compounds, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys, Releases

Incompatible Materials heat when diluted in water.

Hazardous decomposition Oxides of sodium

products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Possible hazardous reactions

Inhalation Inhalation of mists could have a corrosive effect on the respiratory tract

Skin contact Causes skin corrosion

Eye contact Risk of serious damage to the eyes.

Corrosive. If swallowed, may cause severe oral and esophageal, mucus

membrane, and gastrointestinal burns and possible perforation. If swallowed,

Ingestion may pose a lung aspiration hazard during vomiting.

Acute toxicity

Acute oral toxicity LD50 (rat): 325 mg/kg
Acute inhalation toxicity No data available



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Acute dermal toxicity No data available
Acute toxicity (other) No data available

Skin corrosion/irritation Causes skin corrosion

<u>Serious eye damage/irritation</u> Risk of serious damage to the eyes.

Respiratory or skin sensitization Does not cause sensitization

Germ cell mutagenicity No data available

<u>Carcinogenicity</u> Not classified as a carcinogen by IARC, ACGIH, NTP, or OSHA

Toxicity for reproduction and development

Reproductive toxicityNot expected to cause reproductive effects. **Developmental toxicity**Not expected to cause developmental effects.

Specific target organ toxicity

Single exposure
Repeated exposure
No data available
No data available
No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity to fish

Acute toxicity to aquatic invertebrates

Toxicity to aquatic plants

Toxicity to microorganisms

Chronic toxicity to fish

Chronic toxicity to aquatic invertebrates

Chronic toxicity to aquatic plants

No data available

No data available

No data available

No data available

Persistence and degradability

Biodegradability Inorganic. Not subject to biodegrade

Bioaccumulative potential

Partition coefficient: n-octanol/water
Bioconcentration factor (BCF)

Mobility in soil
Other adverse effects

No data available
No data available
No data available

13. DISPOSAL CONSIDERATIONS

<u>Disposal instructions</u> Dispose of contents/container in accordance with

local/state/federal regulations.

<u>Hazardous waste code</u> Regulated as a hazardous waste. D002

<u>Waste from residues/unused products</u>
Dispose of contents/container in accordance to local/state/federal

regulations.

<u>Contaminated packaging</u> Empty containers should be taken to an approved waste handling

site for recycling or disposal.

14. TRANSPORTATION INFORMATION



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		B	Hazardous	Packing	1.1.1
	UN Number	Description	Class	Group	Label
DOT	UN1824	Sodium Hydroxide, Solution	8	II	CORROSIVE
IATA	UN1824	Sodium Hydroxide, Solution	8	II	CORROSIVE 8
IMDG	UN1824	Sodium Hydroxide, Solution	8	II	CORROSIVE

Marine Pollutant (Yes/No)

Notes

No

Please refer to latest shipping document for the most up to date shipping information including exemptions and special circumstances. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Inventory Information

- United States TSCA Inventory
- Canadian Domestic Substances List (DSL)
- Australia Inventory of Chemical Substances (AICS)
- Japan. CSCL Inventory of Existing and New Chemical Substances
- Korea. Korean Existing Chemicals Inventory (KECI)
- China. Inventory of Existing Chemical Substances in China (IECSC)

Status

On TSCA Inventory

All components of this product are on the Canadian DSL

On the inventory, or in compliance with the inventory

On the inventory, or in compliance with the inventory

On the inventory, or in compliance with the inventory

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US. EPA EPCRA SARA Title III

SARA Sections 311/312

Fire Hazard	Reactivity Hazard	Pressure Hazard	Acute Health	Chronic Health
No	Yes	No	Yes	No

SARA Section 313 Toxic Chemicals

Component/Ingredient	CAS#	Concentration
No component listed		

SARA Section 302 Extremely Hazardous Substance



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Component/Ingredient	CAS#	Reportable Qty.
No component listed		

SARA Section 304 Emergency Release Notification

Component/Ingredient	CAS#	Reportable Qty.
No component listed		

US. EPA CERCLA Hazardous Substances and Reportable Quantities

Component/Ingredient	CAS#	Reportable Qty.
Sodium Hydroxide	1310-73-2	2,000 lb

Clean Air Act (CAA)

Cican fin fice (Cruit)	
Component/Ingredient	CAS#
No component listed	

Safe Drinking Water Act (SDWA)

Component/Ingredient	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
component/ingredient	Quantities	Foliutalits	Foliutarits	Jubstances
No component listed				

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

Component/Ingredient	CAS #
No component listed	

16. OTHER INFORMATION

NFPA (National Fire Protection Association) – Classification

Health	3
Flammability	0
Reactivity	1

HMIS (Hazardous Materials Identification System - Classification

Health	3
Flammability	0
Reactivity	1

PPE Determined by user; dependent on local conditions

Further Information

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 Revision Note
 None

Disclaimer

The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information, and belief at the date of its publication. This SDS is designed only as a guidance for the products to which it applies. No warranty, express, or implied, is given with regards to the accuracy, completeness, or adequacy of the information contained herein. Regulations requirements are subject to change and may differ between various locations, and it is the user's responsibility to ensure that their activities comply with all federal, state, and local laws. The manufacturer, agent, directors, officers, contractors, or employees of either are not liable to any party



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for any damages of any nature arising out of or in connection with the accuracy, completeness, adequacy, or furnishing of any information in the SDS.