

Safety Data Sheet



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Section 1. Chemical Product and Company Identification

Product Name K-Hydroxy
Product Use Heavy Duty Alkaline Cleaner
Product Code 8700
Date of Issue 6/7/2017
Supersedes 7/21/2016

Emergency Telephone Numbers

CHEMTREC- 1-800-424-9300

(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

Section 2. Hazards Identification

Emergency Overview

DANGER



Health Hazards

Acute Toxicity; Oral Category 4
Skin Corrosion/Irritation Category 1
Serious eye damage/ eye irritation Category 1

Physical Hazards

Corrosive to metals Category 1

Precautionary Statements:

P234 Keep only in original container
P260 Do not breathe in mist/vapors/spray/fumes
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when handling product
P280 Wear protective gloves, clothing and eye protection
P301+P330+P331+P312 IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep 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 physician
P363 Wash all contaminated clothing before reuse
P390 Absorb spillage to prevent material damage
P404 Store in a closed container
P405 Store locked up
P501 Dispose of in accordance with all federal, state and local regulations

Hazard Statements:

H290 May be corrosive to metals
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage

Routes of Entry Dermal, Oral, and Inhalation

Acute Effects:

Eyes Causes severe burns and permanent eye damage, including blindness. Severity of damage increases with duration of contact.

Skin	Results of exposure can range from mild to severe burns depending on duration of contact.
Inhalation	May cause irritation nausea, headache, dizziness, pain, decreased breathing capacity, tissue destruction, internal bleeding, lung damage, damage to respiratory system, chemical pneumonia, aspiration (breathing) of liquid., mist, of vomitus (vomit) into lungs can cause aspiration (chemical) pneumonia, hemorrhaging (bleeding), lung damage and even death. Symptoms of aspiration pneumonia include coughing, labored breathing and bluish skin.
Ingestion	May cause diarrhea, vomiting, burns, tissue ulceration, internal bleeding and even death.

Section 3. Composition/Information on Ingredients

<u>Name of Hazardous Ingredients</u>	<u>CAS Number</u>	<u>% by Weight</u>
Sodium Hydroxide	1310-73-2	50%

Section 4. First Aid Measures

Eye Contact	Flush immediately with plenty of clean water for at least 15 minutes holding eyelids apart to ensure rinsing of the entire eye surface. Seek immediate medical attention.
Skin Contact	Flush immediately with plenty of clean water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing before reuse. Discard contaminated shoes and contaminated leather articles. Seek medical attention.
Inhalation	Remove person to fresh air. Begin CPR if breathing has stopped and seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration and give fluids again. Seek immediate medical attention.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A)
(estimated rating)



Hazardous Combustion Products	None
Extinguishing Media	Water, fog, foam, carbon dioxide, dry chemical, media appropriated for surrounding areas.
Unsuitable Extinguishing Media	Direct stream water.
Fire Fighting Procedures	Not considered a fire hazard. Prevent human exposure to fire, fumes, smoke and products of breathing apparatus and impervious protective clothing.

Section 6. Accidental Release Measures

Spill Clean Up	Evacuate personnel, eliminate ignition sources and wear protective equipment. Shut off source of leak only if safe to do so. Contain the spill. Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash or sodium bicarbonate.
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Section 7. Handling and Storage

Handling and Storage	Use plastic pump for transferring product. Have eyewash accessible to use in handling area. Keep container tightly closed when not in use. Store away from strong acids. Store away from excessive heat or cold. KEEP OUT OF THE REACH OF CHILDREN.
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Section 8. Exposure Controls/Personal Protection

Exposure Limits

Product Name	OSHA PEL	NIOSH REL	AIHA WEEL	ACGIH TLV
Sodium Hydroxide (1310-73-2)	2 mg/m ³	2 mg/m ³	N/A	2 mg/m ³

Engineering Controls Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ACGIH requirements. Local mechanical ventilation maybe required.



Personal Protective Equipment (PPE)

Eyes Chemical splash goggles and face shield
Body Rubber or neoprene gloves; Rubber boots and wet suit
Respiratory Use a NIOSH approved respirator if exposure limits are reached or exceeded

Section 9. Physical and Chemical Properties

Physical State	Liquid	Explosive Limits	Not determined
Color	Clear, colorless	Vapor Pressure	6.30 @ 104°F
Odor	"caustic" odor	Vapor Density	Not determined
Odor Threshold	Not determined	Relative Density	Not determined
pH	10-12	Solubility	Complete
Freezing Point	Not determined	Partition Coefficient	Not determined
Boiling Point	289°F	Auto-Ignition Temp.	Not determined
Flash Point	Not combustible	Decomposition Temp.	Not determined
Evaporation Rate	Not determined	Viscosity	Not determined
Flammability	Non-Flammable	Specific Gravity	1.54 @ 60°

Section 10. Stability and Reactivity

Stability and Reactivity	Stable
Incompatibility	Amphoteric material, halogenated hydrocarbons, inorganic acids and organic acids.
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Flammable and explosive hydrogen gas can be liberated upon prolonged contact with the above listed metals.
Conditions to Avoid	None

Section 11. Toxicological Information

Routes of Entry	Dermal, Oral, and Inhalation
Symptoms	Possible burns
Skin Irritant	Yes
Eye Irritant	Yes
Sensitizers	Not determined
Mutagenicity	No information found
Carcinogenicity	None
Reproductive Toxicity	No information found
Target Organs	None

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate using the additive formula (ATE) has been determined.

Acute Toxicity

Test	Results	Basis
Dermal	No data	
Oral	365 mg/kg	ATE determined Category 4
Inhalation	No data	

Section 12. Ecological Information

Environmental Effects Harmful to aquatic life

Section 13. Disposal Considerations

Waste Information Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted hazardous waste management facility. Dispose of material in accordance with all Federal, State and Local authorities for regulations regarding the disposal of RCRA Hazardous Waste.

Section 14. Transportation Information

Regulatory Information	UN number	Proper Shipping Name	Classes	Packaging Group	Label code
DOT Classification	UN1824	Sodium Hydroxide Solution	8	PG II	8

Note: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15. Regulatory Information

US Federal Regulations The following substances are listed as a toxic chemical and are subject to report under the SARA act Section 313: None

The following substances have CERCLA reportable quantity values (in pounds):

State Regulations None **Sodium Hydroxide** **1310-73-2** **1,000**

Section 16. Other Information

Last Revision 6/7/2017

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.