

Safety Data Sheet

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Section 1: Identification

1.1 Product Identifier

Product Name : Potassium Hydroxide Solution
CAS No. : 1310-58-3
Chemical Family : Caustic Potash Solution
Synonyms : Alkali

1.2 Details of the supplier of the safety data sheet

Company : 9920 Pacific Heights Blvd
Suit 150
San Diego
California -92121

1.3 Emergency Telephone number

Emergency phone : +1 (858) 245-0283

Section 2: Health Hazard Information

2.1 Hazard Statements

H290	Corrosive to Metals	Category 1
H301	Acute toxicity Oral	Category 3
H314	Skin corrosion / Skin irritation	Category 1B
H318	Serious eye damage / Eye irritation	Category 1

2.2 Pictograms or Hazard symbols



Signal Word: Danger

May be corrosive to metals.

Causes severe skin burns and serious eye damage. Causes serious eye damage.

Toxic if swallowed.

2.3 Precautionary Statements

P234	Keep only in original container.
P260	Do not breathe fume/gas/mist/vapors.
P264	Wash thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves, clothing, and eye and face protection.
P301+P310	If swallowed, immediately call a physician.
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.
P304+P340	If inhaled, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes, rinse cautiously with water for several minutes.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information On Ingredients

Material		Wt%
Potassium Hydroxide	CAS# 1310-58-3	45
Water	CAS# 7732-18-5	55
Total		100

Section 4: First Aid Measures

4.1 Effects Of Overexposure

Eye Contact: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause blindness. Seek medical attention.

Skin Contact: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

Ingestion: Will cause severe burns to the mouth and damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Induce vomiting with soap solution.

Section 5: Fire Fighting Measures

Flash Point and Method: Non-flammable

Autoignition Temperature: Not Applicable

Flammability Limits In Air: Not Applicable

Extinguishing media: Suitable for surrounding fire.

Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Do not allow to come in contact with acids. Toxic gases released: Contact with acids may release heat.

Section 6: Accidental Release Measures

SPILLS, LEAKS: Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Decontaminate area with sodium or calcium hypochlorite. Do not use combustibles. Do not flush to sewer or waterways

Section 7: Handling And Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe dust, mist, or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Avoid contact with combustibles. Do not use with metal tools or items. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Residue in empty containers may still be hazardous.

Section 8: Exposure Control/Personal Protection

Respiratory protection: Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment to avoid exposure to vapors above 0.1ppm. A respiratory protection program complying with requirements of 29CFR 1910.134 is recommended.

Ventilation: Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

Protective gloves: Skin contact should be minimized through use of rubber gloves.

Other protective equipment: Steel tipped shoes/eye wash station/chemical safety chemical retardant clothing.

Eye protection: Safety goggles / face shield.

Section 9: Physical And Chemical Properties

Form	: Liquid
Appearance	: Colorless to light yellow
Odor	: Mild to none

pH	: > 13
Melting point	: 0 °C
Boiling point/Boiling range	: 100 °C
Flash point	: Non-flammable
Ignition point	: Will not ignite
Danger of explosion	: Product is not explosive
Decomposition temperature	: Not available
Vapor density (Air = 1)	: No information
Volatiles, %	: 20-40
Vapor pressure at 15° C, mm Hg	: Not available
Specific gravity	: 1.5
Solubility in / Miscibility	: Completely miscible in water
Evap. Rate (Water = 1)	: No information found

Section 10: Stability And Reactivity

Stability: Stable

Conditions to avoid: Excess heat, sunlight, confined spaces.

Incompatible with: Most common metals, acids.

Hazardous decomposition products: Heat

Hazardous polymerization: Will not occur.

Conditions to avoid: Excess heat, direct sunlight.

Section 11: Toxicological Information

ACUTE:

Oral rat LD50: 1800 mg/kg

Ingredients investigated as a tumorigen, mutagen, reproductive effector

Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No

IARC Category No

OTHER DATA:

Corrosive to skin, eyes, and mucous membranes.

Section 12: Ecological Information

Bioaccumulation : When released into the soil, this material is not expected to biodegrade.
When released into the soil, this material may leach into groundwater.

Environmental Toxicity: This material is suspected of being harmful to aquatic life.

Section 13: Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

Section 14: Transportation Information

Class 8

PG II

UN 1814

Shipping Name : Potassium Hydroxide Solution

Section 15: Regulatory

Symbol: C, Corrosive.

R-Phrase: 35, causes severe burns

S23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16: Other Information

NFPA Codes:

Health: 3

Flammability: 0

Reactivity: 2

R35: Causes severe burns.

Ingredients are TSCA listed.

Further information

The information and recommendations in this SDS are to the best of our knowledge, information and belief accurate at the time of publication. Although utmost care is been taken in composition of this text, Highpuris LLC cannot be held responsible for any damage resulting from any possible error in this publication.