



Gujarat Alkalies and Chemicals Ltd. Vadodara

SECTION 1: Product and Company Identification	
Name	Potassium Hydroxide Solution
Company	M/s. Gujarat Alkalies and chemicals limited, P.O. Petrochemicals, Dist.: -Vadodara, Gujarat(India), Pin Code: 391346.
Synonyms	Caustic Potash Lye
Emergency Telephone Number	09979897101, (0265) 2230384, (0265) 6540460. Fax No. 0265-2232130

SECTION 2: Hazards Identification	
Emergency Overview	
	DANGER: May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage
Potential Health Effects	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin	Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Rinse mouth Do NOT induce vomiting.
Disposal	Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients			
Component	CAS-No.	EC-No.	Weight %
Potassium Hydroxide Lye	1310-58-3	215-181-3	~ 30-50 %
Water	7732-18-5	231-791-2	~50 – 70%

SECTION 4: First Aid Measures	
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
Eyes	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms/effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

SECTION 5: Fire Fighting Measures			
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Flash Point	Not Applicable	Explosion Limits	
Auto ignition Temperature	No data available	Upper	No data available
		Lower	No data available
Hazardous Combustion Products	Hazardous decomposition products formed under fire conditions. - Potassium oxides.		
Specific Hazards Arising from the Chemical	Potassium oxides. Keep product and empty container away from heat and sources of ignition.		
NFPA: Health: 3	Flammability: 0	Reactivity: 0	Special hazards: NA

SECTION 6: Accidental Release Measures	
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with skin, eyes and inhalation of vapors. Do not use metal tools or equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage	
Handling	Use only under a chemical fume hood. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area. Do not store in metal containers.

SECTION 8: Exposure Controls/Personal Protection		
Exposure Guidelines:		
Component	OSHA PEL	ACGIH TLV
Potassium Hydroxide	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Engineering Measures	Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Tightly fitting safety goggles. Face shield. Use equipment for eye protection tested and approved under appropriate government standards.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Long sleeved clothing.	
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use or type respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.	

SECTION 9: Physical and Chemical Properties			
Appearance	Colorless Liquid	Water solubility	Not applicable
Odour	Odorless	Auto-ignition temperature	No data available
pH	12.0 (0.1M)	Viscosity	No data available
Melting point/freezing	No data available	Flammability (solid, gas)	No data available

point			
Initial boiling point and boiling range	No data available	Decomposition temperature	No data available
Vapour pressure	No data available	Relative density	1.32-1.50
Vapour density	No data available	Oxidizing properties	No data available

SECTION 10: Stability and Reactivity

Reactive Hazard	No data available
Stability	Stable under recommended storage conditions
Conditions to Avoid	Incompatible products.
Incompatible Materials	Acids, Halogens, Acid anhydrides, Metals
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions. - Potassium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

SECTION 11: Toxicological Information

Acute toxicity	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
Carcinogenicity	Not listed.

SECTION 12: Ecological Information

Eco toxicity	Do not allow material to contaminate ground water system.
Other	Harmful to aquatic life. LC ₅₀ : 80 mg/L, 96h static (Gambusia affinis) in fresh water.

SECTION 13: Disposal Considerations

Waste treatment methods	
Waste	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport Information

UN number	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Transport hazard class	8
Packaging group	II
Environmental hazards	IMDG Marine pollutant: no

SECTION 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation.
Chemical safety assessment
A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other Information

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.