



Gujarat Alkalies and Chemicals Ltd.

Vadodara

SECTION 1: Product and Company Identification			
Name		POTASSIUM HYDROXIDE FLAKES	
Company		M/s Gujarat Alkalies and chemicals limited, P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346	
Synonyms		Potassium hydrate; Caustic potash.	
Emergency Contact Details		Phone no.	09979897101, 09879604102
		E-mail	headmarketing@gacl.co.in ccr@gacl.co.in
SECTION 2: Hazards Identification			
Emergency Overview			
		Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapours/spray Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep only in original container	
Potential Health Effects			
Inhalation	Can cause severe respiratory irritation. Inhalation of mists or vapors may Produce upper airway edema, wheezing, pulmonary edema, pneumonitis and respiratory failure.		
Skin	Contact causes severe skin irritation and possible burns.		
Eyes	Causes severe eye burns. Corrosive to the eyes and may cause severe damage including blindness.		
Ingestion	Ingestion may produce burns to the lips, oral cavity, upper airway, Esophagus and possibly the digestive tract. Ingestion of this product may cause nausea, vomiting and diarrhea.		
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 Flakes	1310-58-3	215-181-3	~ 100 %
SECTION 4: First Aid Measures			
Inhalation	Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.		
Skin	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.		
Ingestion	Do not induce vomiting. Call a physician immediately.		
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	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.		
Flash Point	Not Applicable	Explosion Limits	
Auto ignition Temperature	No data available	Upper	No data available
		Lower	No data available
Hazardous Combustion Products	Potassium oxides.		
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapours. Contact with metals may evolve flammable hydrogen gas. Water reactive.		
NFPA: Health: 3 Flammability: 0 Reactivity: 1 Special hazards: N/A			
SECTION 6: Accidental Release Measures			
Personal Precautions	Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.		
Environmental precautions	Should not be released into the environment. Do not flush into surface water or sanitary sewer system.		
Methods and materials for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.		
SECTION 7: Handling and Storage			
Handling	Use only under a chemical fume hood. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Corrosives area.		
SECTION 8: Exposure Controls/Personal Protection			
Exposure Guidelines:			
Component	OSHA PEL	ACGIH TLV	
Potassium Hydroxide flakes	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	
Engineering Measures	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.		
Personal Protective Equipment			
Eye/face Protection	Face shield and safety glasses 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.		
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use 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	Light yellow solid	Water solubility	Soluble in water
Odour	Odorless	Auto-ignition temperature	No data available
pH	13.5 (0.1M)	Viscosity	No data available
Melting point/freezing point	360 °C	Flammability (solid, gas)	No data available

Initial boiling point and boiling range	1,320 °C	Decomposition temperature	No data available
Vapour pressure	1 mmHg at 719 °C	Relative density	2.044 g/cm ³
Vapour density	No data available	Oxidizing properties	No data available
Specific Gravity	2.04		
SECTION 10: Stability and Reactivity			
Reactive Hazard	Yes		
Stability	Water reactive. Moisture sensitive. Air sensitive.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.		
Incompatible Materials	Nitro compounds, Organic materials, Magnesium, Copper, Water, reacts violently with: Metals, Light metals, contact with aluminum, tin and zinc liberates hydrogen gas. Contact with n formation of shock sensitive salts., vigorous reaction with: Alkali metals, Halogens, Azides, Anhydrides.		
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	LD ₅₀ Oral - 273 mg/kg (Rat)		
Carcinogenicity	Not listed		
SECTION 12: Ecological Information			
Eco toxicity	LC ₅₀ : = 80 mg/L, 96h static (Gambusia affinis)		
Other	Harmful to aquatic life.		
SECTION 13: Disposal Considerations			
Waste treatment methods	Waste is classified as hazardous. Dispose of in accordance with the local regulations.		
Product	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	1813		
UN proper shipping name	Potassium hydroxide, solid		
Transport hazard class	8		
Packaging group	II		
Environmental hazards	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 was not 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.