



# Gujarat Alkalies and Chemicals Ltd.

## Vadodara

SECTION 1: Product and Company Identification			
<b>Name</b>		<b>SODIUM HYDROXIDE FLAKES</b>	
<b>Company</b>		M/s Gujarat Alkalies and chemicals limited, P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346	
<b>Synonyms</b>		Caustic Soda flakes	
<b>Emergency Contact Details</b>		Phone no.	09979897101, 09879604102
		E-mail	headmarketing@gacl.co.in ccr@gacl.co.in
SECTION 2: Hazards Identification			
<b>Emergency Overview</b>			
		Danger May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation	
<b>Potential Health Effects</b>			
<b>Inhalation</b>		Can cause severe respiratory irritation. Inhalation of mists or vapors may produce upper airway edema, wheezing, pulmonary edema, pneumonitis and respiratory failure.	
<b>Skin</b>		Contact causes severe skin irritation and possible burns.	
<b>Eyes</b>		Causes severe eye burns. Corrosive to the eyes and may cause severe damage including blindness.	
<b>Ingestion</b>		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.	
<b>Disposal</b>		Dispose of contents/container to an approved waste disposal plant	
SECTION 3: Composition/information on ingredients			
<b>Component</b>		<b>CAS-No.</b>	<b>EC-No.</b>
Sodium Hydroxide Flakes		1310-73-2	215-185-5
			<b>Weight %</b>
			> 97 %
SECTION 4: First Aid Measures			
<b>Inhalation</b>		Move to fresh air. If breathing is difficult, give oxygen. 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.	
<b>Skin</b>		Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.	
<b>Eyes</b>		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.	
<b>Ingestion</b>		Do not induce vomiting. Call a physician immediately.	
<b>Most important symptoms/effects</b>		Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.	
<b>Notes to Physician</b>		Treat symptomatically.	
SECTION 5: Fire Fighting Measures			

<b>Suitable Extinguishing Media</b>	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.		
<b>Flash Point</b>	Not Applicable	<b>Explosion Limits</b>	
<b>Auto ignition Temperature</b>	No data available	<b>Upper</b>	No data available
		<b>Lower</b>	No data available
<b>Hazardous Combustion Products</b>	Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> ) Sodium oxides		
<b>Specific Hazards Arising from the Chemical</b>	Thermal decomposition can lead to release of irritating gases and vapors. Water reactive. Corrosive Material. Causes severe burns by all exposure routes.		
<b>NFPA: Health: 3 Flammability: 0 Reactivity: 1 Special hazards: Alkalies</b>			
<b>SECTION 6: Accidental Release Measures</b>			
<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid dust formation. Do not get in eyes, on skin, or on clothing.		
<b>Environmental precautions</b>	Should not be released into the environment. See Section 12 for additional ecological information.		
<b>Methods and materials for containment and cleaning up</b>	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.		
<b>SECTION 7: Handling and Storage</b>			
<b>Handling</b>	Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing.		
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.		
<b>SECTION 8: Exposure Controls/Personal Protection</b>			
<b>Exposure Guidelines:</b>			
<b>Component</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	
Sodium hydroxide	TWA: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	
<b>Engineering Measures</b>	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.		
<b>Personal Protective Equipment</b>			
<b>Eye/face Protection</b>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.		
<b>Skin and body protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.		
<b>Respiratory Protection</b>	Where risk assessment shows air-purifying respirators are appropriate use respirator cartridges as a backup to engineering controls. If the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.		
<b>SECTION 9: Physical and Chemical Properties</b>			
<b>Appearance</b>	White Flakes	<b>Water solubility</b>	Completely miscible, soluble
<b>Odour</b>	Odorless	<b>Auto-ignition temperature</b>	No data available

<b>pH</b>	14 (5 %)	<b>Viscosity</b>	No data available
<b>Melting point/freezing point</b>	318 °C	<b>Flammability (solid, gas)</b>	No data available
<b>Initial boiling point and boiling range</b>	1,390 °C	<b>Decomposition temperature</b>	No data available
<b>Vapour pressure</b>	1 mmHg @ 739 °C	<b>Relative density</b>	2.1300 g/cm <sup>3</sup>
<b>Vapour density</b>	1.38 (Air = 1.0)	<b>Oxidizing properties</b>	No data available
<b>SECTION 10: Stability and Reactivity</b>			
<b>Reactive Hazard</b>	No data available		
<b>Stability</b>	Water reactive. Hygroscopic.		
<b>Conditions to Avoid</b>	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.		
<b>Incompatible Materials</b>	Strong oxidizing agents, Strong acids, Organic materials, Water, Metals.		
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Sodium oxides.		
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.		
<b>Hazardous Reactions</b>	None under normal processing.		
<b>SECTION 11: Toxicological Information</b>			
<b>Acute toxicity</b>	No data available Sodium hydroxide		
<b>Carcinogenicity</b>	ACGIH - Not listed, OSHA - Not listed.		
<b>SECTION 12: Ecological Information</b>			
<b>Eco toxicity</b>	Toxicity to fish LC <sub>50</sub> - Gambusia affinis (Mosquito fish) - 125 mg/l – 96 h (Sodium hydroxide) LC <sub>50</sub> - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h (Sodium hydroxide) Toxicity to daphnia and other aquatic invertebrates. Immobilization EC <sub>50</sub> -Daphnia (water flea)-40.38 mg/l- 48 h (Sodium Hydroxide)		
<b>Other</b>	Harmful to aquatic life.		
<b>SECTION 13: Disposal Considerations</b>			
<b>Waste treatment methods</b>			
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.			
<b>Contaminated packaging</b>	Dispose of as unused product.		
<b>SECTION 14: Transport Information</b>			
<b>UN number</b>	1823		
<b>UN proper shipping name</b>	SODIUM HYDROXIDE, SOLID		
<b>Transport hazard class</b>	8		
<b>Packaging group</b>	II		
<b>Environmental hazards</b>	IMDG Marine pollutant: no		
<b>SECTION 15: Regulatory Information</b>			
<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>			
This safety datasheet complies with the requirements of Regulation.			
<b>Chemical safety assessment</b>			
For this product a chemical safety assessment was not carried out.			
<b>SECTION 16: Other Information</b>			
<b>Disclaimer</b>			
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.