

Gujarat Alkalies and Chemicals Ltd.

Vadodara

SECTION 1: Product and Company Identification					
Name	CHLORINE				
Company		M/s Gujarat Alkalies and Chemicals Limited, P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346			
Synonyms	None	None			
Emergency Contact	Phone no.	one no. 09979897101, 09879604102			
Details	E-mail	headmarketing@gacl.co.in ccr@gacl.co.in			
SECTION 2: Hazards	Identificatio	n			
Emergency Overview					
Danger, May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated. May cause frostbite Fatal if inhaled. Causes severe skin burns and eye damage. Corrosive to respiratory tract. Very toxic to aquatic life.Potential Health EffectsOverexposure to concentrations moderately above the Threshold Limit Value (TLV) of 0.5 					
and seve	concentrations (e.g., greater than 15 ppm) causes choking, coughing, burning of the throat and severe irritation of the upper respiratory tract; additionally, pulmonary edema, bronchitis, and pneumonitis may result. Lack of oxygen can kill.				
Skin May severely irritate the skin, causing ulceration, chemical burns, and scarring. Repeated exposure may produce dermatitis. With prolonged or widespread contact, the skin may absorb potentially harmful amounts of material.					
Eyes May severely inflame the conjunctiva, injuring the lens, and causing corneal opacity and iris atrophy.					
Ingestion As similar to inhalation due to gases form.					
Disposal Dispose of	Disposal Dispose of contents/container to an approved waste disposal plant				
SECTION 3: Composition/information on ingredients					
Component		CAS-No.	EC-No.	Weight %	
Chlorine		7782-50-5	231-959-5	> 99 %	

SECTION 4: First Aid Measures					
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.				
Skin	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.				
Eyes	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.				
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. refer to the inhalation section.				
Most important symptoms/effects	Cause skin irritation, Cause serious eye irritation, toxic if inhaled, may cause respiratory irritation, very toxic to aquatic life.				
Notes to Physician	Treat symptomatically and supportively.				
SECTION 5: Fire Fighting Mo	easures				
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.				
Flash Point	No data available Explosive Limits				
Auto ignition Temperature	No data available	Upper	No data available		
		Lower	No data available		
Hazardous Combustion Products	Decomposition products may include the following materials: halogenated compounds.				
Specific Hazards Arising from the Chemical	Contains gas under pressure. Oxidizing material. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire. In a fire or if heated, a pressure increase will occur and the container may burst or explode. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.				
NFPA: Health: 3 Flam	mability: 0 Read	ctivity: 0 Speci	al hazards: NA		
SECTION 6: Accidental Release Measures					
Personal Precautions	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.				
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	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations				

SECTION 7: Handling a	nd Storage				
Handling		Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking.			
Storage		Store in cool place. Keep container tightly closed in a dry and well- ventilated place.			
SECTION 8: Exposure (Controls/Personal	Protection			
Exposure Guidelines:					
Compon	ent	OSHA PEL	ACGIH TWA		
CHLORI	NE	1 ppm	0.5 ppm		
Engineering Measures	exhaust vent exposure to	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.			
Personal Protective Equip	ment				
Eye/face Protection		Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.			
Skin and body protection	glove removal t skin contact wi in accordance v and dry hands. protective equi	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. Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			
Respiratory Protection	respirator carti supplied air re	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 ar	nd Chemical Prope	erties			
Appearance	Compressed gas Colour: Greenish ye	Water solubility	ca.10 g/l at 20 °C		
Odour	Pungent	Auto-ignition temperature	No data available		
рН	1.8 at 6.4 g/l @ 20 °	C Viscosity	No data available		
Melting point/freezing point	Melting point/range 101 °C - lit.	e: - Flammability (solid, gas)	No data available		
Initial boiling point and boiling range	-34 °C - lit.	Decomposition temperature	No data available		
Vapour pressure	6.399 hPa at 20 °C	Relative density	1.563 g/cm ³ @ 33.99 °C		
Vapour density	2.44 (Air = 1.0)	Oxidizing properties	The substance or mixture is classified as oxidizing.		

SECTION 10: Stab	ility an	d Reactivity			
Reactive Hazard		Io specific test data related to reactivity available for this product			
Stability Sta		table under recommended storage conditions			
Conditions to Avoid N		No data available			
Incompatible Materials Alc		Alcohols			
-		azardous decomposition products formed under fire conditions Nature decomposition products not known.			
Hazardous Polymeri	zation	Hazardous polymerization will not occur.			
sto ma		azardous reactions or instability may occur under certain conditions of corage or use. Conditions may include the: contact with combustible naterials			
		Reactions may include the: risk of causing fire			
SECTION 11: Toxi	cologica				
Acute toxicity		LC ₅₀ Inhalation - Rat - 1 h - 293 ppm			
Carcinogenicity		This product is or contains a component that is not classifiable as to its classification.			
SECTION 12: Ecol	ogical lı	nformation			
Eco toxicity	Toxicity	ty to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.014 mg/l - 96.0 h ty to daphnia and other aquatic invertebrates			
Other		Daphnia magna (Water flea) - 0.019 mg/l - 24 h.			
	-	oxic to aquatic life.			
SECTION 13: Disp		insiderations			
Waste treatment me	ethods				
hi		ourn in a chemical incinerator equipped with an afterburner and scrubber ighly flammable. Offer surplus and non-recyclable solutions to a licensed isposal facility.			
Contaminated packaging D		Dispose of as unused product.			
SECTION 14: Transport Information					
UN number		1017			
UN proper shipping name		CHLORINE			
Transport hazard class		2.3 (5.1, 8)			
Packaging group					
Environmental hazards		IMDG Marine pollutant: Yes			
SECTION 15: Regulatory Information					
Safety, health and e	nvironm	ental regulations/legislation specific for the substance or mixture es with the requirements of Regulation.			

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.