

Gujarat Alkalies and Chemicals Ltd. Vadodara

SECTION 1: Product and Company Identification								
Name SOD		SOD	IUM HYPOCHLORITE SOLUTION					
Company		M/s Gujarat Alkalies and chemicals limited,						
		P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346						
Synonyms Ble		Blead	ach, Hypo, Hypochlorite, Liquid Chlorine Solution					
Emergency Co	ntact	Phor	ne no. 09979897101, 09879604102					
Details		E-ma	ail headmarketing@gacl.co.in					
			ccr@gacl.co.in					
SECTION 2: I	Hazards Io	lentifi	ication					
Emergency Ov	verview							
			May be corrosive to metals. Causes severe skin burns and eye					
		¥	damage. May cause respiratory irritation. Very toxic to aquatic					
	•		life.					
Potential Heal	th Effects			•				
Innalation	Cause res	ause respiratory irritation						
SKIN	Skin irrita							
Eyes	Eye irritat	e irritation, Eye damages						
Dispession	Cause respiratory irritations as gas form							
Disposal Dispose of contents/container to an approved waste disposal plant								
SECTION 3: Composition/Information on Ingredients								
Component				CAS-NO.	EC-NO.	Weight %		
Sodium Hypochlorite Bleach		ch	/681-52-9		231-668-3	12.5% V/V		
Sodium Hydroxide				1310-73-2 215-185-5 4.0%				
SECTION 4: I	First Aid N	/leasu	res					
Inhalation		Move	Nove person to fresh air. If person is not breathing, call a doctor, then give					
Chin			tificial respiration, preferably mouth-to-mouth if possible.					
Skin Tak		1ake c	e off contaminated clothing. Rinse skin immediately with plenty of water for					
Eves		Hold (minutes.					
Lyes		Remov	a eye open and mise slowly and genuy with Waler 101 15-20 Minules.					
		rinsing eve. Call a doctor for treatment advice.						
Ingestion Have		Have	e person sip a glass of water if able to swallow. Do not induce vomiting					
		unless	Inless told to do so by doctor. Do not give anything by mouth to an unconscious					
persc		persor	n.					
Most important Not av		vailable.						
symptoms/effects								
Notes to Physician Proba			ble mucosal damage may contraindicate the use of gastric lavage.					
SECTION 5: I	Fire Fighti	ng Me	easure	S				
Suitable Extinguishing Media			Water fog. Foam. Dry chemical powder. Carbon dioxide.					
Flash Point			Not applicable. Explosion Limits					
Auto ignition Temperature			Not ap	oplicable.	Upper	No data available		
					Lower	No data available		
Hazardous Combustion			Not pertinent.					
Products								

Specific Hazards Arising from		May decompose, generating irritating chlorine gas. Do not use Mono				
the Chemical		Ammonium Phosphate (MAP) fire extinguishers. Such use may cause				
		explosion with rel	lease of toxic gas	ses.		
NFPA: Health	n: 3 Flamm	ability: 0	Instability: 1	Specia	l hazards: OX	
SECTION 6: A	Accidental Rel	ease Measures				
Personal Preca	utions	Keep unnecessary personnel away. Wear appropriate personal				
		protective equip	ment. Do not t	ouch damaged	containers or spilled	
		material unless wearing appropriate protective clothing. Absorb spillage				
		to prevent material damage. Local authorities should be advised if				
- • •		significant spillages cannot be contained.				
Environmenta	precautions	Do not discharge into drains, water courses or onto the ground.				
Methods and m	aterials for	Environmental manager must be informed of all major releases.				
containment an	nd cleaning up	Stop the flow of material, if this is without risk. Dike the spilled material,				
		into containers. Following product recovery, fluch area with water. Never				
		return spills in original containers for re-use				
	Jandling and S		Sindi containers			
Handling	Avoid contact y	with skip or over D	o not ingost Ave	vid inhalation of	vapour or mist Woar	
nanunng	protective equ	avoid contact with skin of eyes. Do not ingest. Avoid initialation of vapour of mist, wear				
	directions. Mix	directions Mixing this product with ammonia acids detergents etc. or with organic				
	materials, e.g. 1	aces, urine, etc. wil	l release chlorine	e gas, which is ir	ritating to eves, lungs,	
	and mucous me	us membranes.				
Storage	Do not freeze. S	Do not freeze. Store in a cool, shaded outdoor area. Inside storage should be in a cool, dry,				
_	well-ventilated	area. To maintain h	hypochlorite stre	ngth, do not sto	ore in direct or heated	
	indoor areas. K	oor areas. Keep in original vented container. Keep container closed when not in use.				
	Do not store ad	not store adjacent to chemicals that may react if spillage occurs. If closed containers			rs. If closed containers	
	become heated	I, vent to release decomposition products (mainly oxygen under normal				
	decomposition					
SECTION 8: E	Exposure Cont	rols/Personal Pro	otection			
Exposure Guid	elines:		I			
Compone		ent	09	SHA PEL	ACGIH TWA	
	Sodium Hypor	hlorite	Not e	stablished.	Not established.	
* Ch. La	Chlorine	2* 0.5 ppm 0.5 ppm			0.5 ppm	
*Chiorine is un	likely to be prese	ent as a decomposition	ion product, but	may be present	In incidents of	
		lemicals.				
	easures	Exposure Limit) of 1 nnm as chlorine				
Personal Prote	ective Fauipment			ne.		
Eve/face Prote	ection	Wear safety glasses	s. goggles or face	shield to preve	nt eve contact.	
Skin and body	protection	Wear appropriate chemical resistant protective clothing and chemical				
		resistant gloves to prevent skin contact. Butyl rubber, Neoprene, or Nitrile				
		Gloves should be worn when handling this material. Wear chemical				
		resistant clothing such as a rubber apron when splashing may occur. Rinse				
		immediately if skin is contaminated. Remove contaminated clothing				
		promptly and wash before reuse. Clean protective equipment before				
		reuse.				
Respiratory Protection		Avoid breathing vapour or mist. When airborne exposure limits are				
		exceeded (see belo	w), use approve	d respiratory pro	otection equipment	
		appropriate to the	e material and/	for its compon	ents. Full face piece	
		equipment is recon	intended and, It	useu, replaces h	eeu for face shield and	

			chemical goggles. For emergency and other conditions where exposure					
			limit may be significantly exceeded, use an approved full face positive					
			pressure, self-contained breathing apparatus.					
SECTION 9: Phys	ical and	d Ch	emical Properties					
Appearance		Gree	enish yellow liquid	Water solubility	Mixes infinitely with			
		, 1			water.			
Odour		Pung	gent	Auto-ignition	No information			
				temperature	available.			
рН		11.2	– 11.4 (1% solution)	Viscosity	1.75 - 2.50			
					centipoises (varies			
					with temperature)			
Melting point/free	zing	- 16 °C		Flammability (solid, gas)	Not flammable.			
Point		Class		Deservesition	Decembers			
Initial boiling point	and	SIOW	viy decomposes	Decomposition	Decomposes @			
Vanour proceuro		400v	$\frac{1}{2}$ mm Hg @ 20.00	Relative density	110 C			
Vapour pressure		12.1 2.61	(air=1)	Avidizing properties	1.2 g/mL @ 20 °C			
	hility a			Oxidizing properties				
Beactive Hazard	Dility al		e of decomposition in	croaces with heat May days	lon chloring if mixed			
Reactive Hazaru		Ndl Wit	Rate of decomposition increases with heat. May develop chlorine if mixed					
Stability	Stability		with actual solutions. Unstable at temperatures above 10° C in sublight, and in contact with acid					
Conditions to Avoid		Hig	High heat ultraviolet light					
Incompatible Materials		Oxi	Oxidizing agents, acids, nitrogen containing organics, metals, iron, conner					
		nic	nickel, cobalt, organic materials. and ammonia.					
Hazardous		Chlorine (by reaction with acids), oxygen (by reaction with nickel, copper.						
Decomposition Pro	oducts	tin, manganese, iron), sodium chloride, sodium chlorate, with increased						
•		temperature.						
Hazardous Polymerization		Wil	Will not occur.					
Hazardous Reactions		No	No information available.					
SECTION 11: Tox	cicologi	cal I	nformation					
Acute toxicity			Oral Toxicity (LD ₅₀): 8.91 g/kg (Rat)					
Carcinogenicity			Not considered to be carcinogenic (IARC and ACGIH)					
SECTION 12: Eco	logical	Info	ormation					
Eco toxicity	Sodium	Sodium hypochlorite is low in toxicity to avian wildlife, but it is highly toxic to			highly toxic to			
	freshwater fish and invertebrates.							
Other	In seawater, chlorine levels decline rapidly; however, hypobromite (which is acutely			mite (which is acutely				
	toxic to aquatic organisms) is formed.							
SECTION 13: Dis	posal C	onsi	iderations					
Waste treatment methods		D	Do not discharge effluent containing this product into lakes, streams, ponds,					
		es	estuaries, oceans, or other waters unless in accordance with the					
Broduct		re	requirements of a local regulations.					
Product			autinment Product or rinsets that cannot haused should be diluted with					
		w	water before disposal in a sanitary sewer.					
Contaminated packaging								
SECTION 14: Tra	SECTION 14: Transport Information							
UN number			1791					
UN proper shipping name			Hypochlorite Solutions (Sodium Hypochlorite)					
Transport hazard class			8					

Packaging group	Ш	
Environmental hazards	Yes	
SECTION 15: Pogulatory Information		

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.

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.