

# **Gujarat Alkalies and Chemicals Ltd. Vadodara**

SECTION 1: Product and Company Identification				
Name	SODIUM HY	SODIUM HYPOCHLORITE SOLUTION		
Company	M/s Gujara	M/s Gujarat Alkalies and chemicals limited,		
	P.O. Petroc	P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346		
Synonyms	Bleach, Hyp	Bleach, Hypo, Hypochlorite, Liquid Chlorine Solution		
<b>Emergency Contact</b>	Phone no.	Phone no. 09979897101, 09879604102		
Details	E-mail	E-mail headmarketing@gacl.co.in		
		ccr@gacl.co.in		

#### **SECTION 2: Hazards Identification**

## **Emergency Overview**



May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life.

Potential Health Effects			
Inhalation	Cause respiratory irritation		
Skin	Skin irritation		
Eyes	Eye irritation, Eye damages		
Ingestion	ion Cause respiratory irritations as gas form		
Disposal	Dispose of contents/container to an approved waste disposal plant		

# **SECTION 3: Composition/information on ingredients**

Section 5: composition/information on ingredients			
Component	CAS-No.	EC-No.	Weight %
Sodium Hypochlorite Bleach	7681-52-9	231-668-3	12.5% V/V
Sodium Hydroxide	1310-73-2	215-185-5	4.0%

## **SECTION 4: First Aid Measures**

Inhalation	Move person to fresh air. If person is not breathing, call a doctor, then give artificial respiration, preferably mouth-to-mouth if possible.
Skin	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
Eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a doctor for treatment advice.
Ingestion	Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by doctor. Do not give anything by mouth to an unconscious person.
Most important symptoms/effects	Not available.
Notes to Physician	Probable mucosal damage may contraindicate the use of gastric lavage.

#### **SECTION 5: Fire Fighting Measures**

Suitable Extinguishing Media	Water fog. Foam. Dry chemical powder. Carbon dioxide.		
Flash Point	Not applicable.	<b>Explosion Limits</b>	
<b>Auto ignition Temperature</b>	Not applicable.	Upper	No data available
		Lower	No data available
Hazardous Combustion	Not pertinent.		
Products			

Constitution	da Autaina fuana	NA da aa		De week was Mana	
Specific Hazards Arising from		May decompose, generating irritating chlorine gas. Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause			
the Chemical		<u> </u>		uch use may cause	
ALEDA II. III	l. 0 Fl	explosion with release of	<del>-</del>	Lla auto OV	
NFPA: Healtl		•	bility: 1 Specia	I hazards: OX	
		ease Measures			
Personal Preca	autions		ersonnel away. Wear a		
		protective equipment. Do not touch damaged containers or spilled			
			ing appropriate protect	_	
		' ' '	naterial damage. Local a		
			illages cannot be contained		
Environmenta	•	_	Do not discharge into drains, water courses or onto the ground.  Environmental manager must be informed of all major releases.		
Methods and n		Stop the flow of mat	erial, if this is without	risk. Dike the spilled	
containment a	nd cleaning up	material, where this is p	oossible. Absorb in vermicu	ılite, dry sand or earth	
		and place into containe	ers. Following product rec	overy, flush area with	
		water. Never return spi	lls in original containers fo	r re-use.	
SECTION 7: I	Handling and	Storage			
Handling	Avoid contact	with skin or eyes. Do not	ingest. Avoid inhalation of	vapour or mist. Wear	
	protective eq	uipment if necessary. M	ix only with water in a	ccordance with label	
	directions. Mi	xing this product with am	nmonia, acids, detergents	, etc. or with organic	
	materials, e.g.	faces, urine, etc. will relea	se chlorine gas, which is ir	ritating to eyes, lungs,	
	and mucous membranes.				
Storage	Do not freeze. Store in a cool, shaded outdoor area. Inside storage should be in a cool,				
	dry, well-ventilated area. To maintain hypochlorite strength, do not store in direct or				
	heated indoor	areas. Keep in original ver	nted container. Keep conta	ainer closed when not	
	in use. Do not store adjacent to chemicals that may react if spillage occurs. If close			llage occurs. If closed	
containers beco		ome heated, vent to release decomposition products (mainly oxygen			
	under normal	decomposition).			
SECTION 8: I	Exposure Conf	trols/Personal Protecti	ion		
Exposure Guid	lelines:				
	Compon	ent	OSHA PEL	ACGIH TWA	
	Sodium Hypo	chlorite	Not established.	Not established.	
Chlorine		e*	0.5 ppm	0.5 ppm	
*Chlorine is unlikely to be prese		ent as a decomposition pro	oduct, but may be present	in incidents of	
accidental mix	ing with other cl	nemicals.			
Engineering M	leasures	Local exhaust ventilatio	n to maintain levels below	STEL (Short Term	
		Exposure Limit) of 1 ppi	m as chlorine.		
Personal Protective Equipment					
Eye/face Prote	ection	Wear safety glasses, gogg	gles or face shield to preve	nt eye contact.	
Skin and body	protection	Wear appropriate chem	ical resistant protective of	clothing and chemical	
		resistant gloves to prev	vent skin contact. Butyl ı	rubber, Neoprene, or	
		Nitrile Gloves should b	pe worn when handling	this material. Wear	
ĺ		chemical resistant clothi	ng such as a rubber apror	n when splashing may	
		occur. Rinse immediately	y if skin is contaminated. F		
		occur. Rinse immediately clothing promptly and w	y if skin is contaminated. F vash before reuse. Clean		
		occur. Rinse immediately clothing promptly and w before reuse.	vash before reuse. Clean	protective equipment	
Respiratory Pr	otection	occur. Rinse immediately clothing promptly and w before reuse.  Avoid breathing vapour	vash before reuse. Clean or mist. When airborne	protective equipment e exposure limits are	
Respiratory Pr	otection	occur. Rinse immediately clothing promptly and w before reuse.  Avoid breathing vapour exceeded (see below), us	vash before reuse. Clean or mist. When airborne se approved respiratory pro	e exposure limits are otection equipment	
Respiratory Pr	otection	occur. Rinse immediately clothing promptly and w before reuse.  Avoid breathing vapour exceeded (see below), us appropriate to the materials.	vash before reuse. Clean or mist. When airborne	e exposure limits are otection equipment ents. Full face piece	

				es. For emergency and other conditions where		
			exposure limit may be significantly exceeded, use an approved full face			
			positive pressure, self-contained breathing apparatus.			
-			emical Properties		T	
Appearance Gro		Gree	enish yellow liquid	Water solubility	Mixes infinitely with water.	
Odour		Pung	gent	Auto-ignition temperature	No information available.	
pH 11.		11.2	– 11.4 (1% solution)	Viscosity	1.75 - 2.50 centipoises (varies with temperature)	
Melting point/free Point	zing	- 16	°C	Flammability (solid, gas)	Not flammable.	
Initial boiling point boiling range			rly decomposes re 40 °C.	Decomposition temperature	Decomposes @ 110°C	
Vapour pressure		12.1	mm Hg @ 20 <sup>0</sup> C	Relative density	1.2 g/mL @ 20 °C	
Vapour density			(air=1)	Oxidizing properties	_	
SECTION 10: Sta	bility ar	nd R	Reactivity			
Reactive Hazard		Rat	Rate of decomposition increases with heat. May develop chlorine if mixed with acidic solutions.			
Stability	Stability		stable at temperature	s above 40°C, in sunlight, and	in contact with acid.	
		Hig	High heat, ultraviolet light.			
I -			Oxidizing agents, acids, nitrogen containing organics, metals, iron, copper, nickel, cobalt, organic materials, and ammonia.			
Hazardous		Chlorine (by reaction with acids), oxygen (by reaction with nickel, copper,				
1		tin, manganese, iron), sodium chloride, sodium chlorate, with increased temperature.				
Hazardous Polymerization		Wil	ll not occur.			
Hazardous Reactions No info		information available	•			
SECTION 11: Tox	cicologic	cal I	nformation			
Acute toxicity						
Carcinogenicity		Not considered to be carcinogenic (IARC and ACGIH)				
SECTION 12: Eco	logical	Info	rmation			
Eco toxicity	Sodium hypochlorite is low in toxicity to avian wildlife, but it is highly toxic to freshwater fish and invertebrates.					
Other					mite (which is acutely	
	In seawater, chlorine levels decline rapidly; however, hypobromite (which is acutely toxic to aquatic organisms) is formed.					
SECTION 13: Disposal Considerations						
Waste treatment n		-	Do not discharge effluent containing this product into lakes, streams,			
		р	ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a local regulations.			
Product		e	Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Product or rinsates that cannot be used should be diluted with			
			water before disposal in a sanitary sewer.			
Contaminated pack						
SECTION 14: Tra	nsport	Info				
UN number			1791			
UN proper shipping			• •	ns (Sodium Hypochlorite)		
Transport hazard c	lass		8			

Packaging group	III
Environmental hazards	Yes

## **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.