

DCM Shriram Ltd.
[Unit: SHRIRAM ALKALI & CHEMICALS]

MATERIAL SAFETY DATA SHEET

SODIUM HYPOCHLORITE

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Supplier : DCM Shriram Ltd.
(Unit: Shriram Alkali & Chemicals)
749/GIDC, Jhagadia-393110,
Dist- Bharuch, Gujarat.
Phone No: (02645)222000/222015

Substance : SODIUM HYPOCHLORITE

Trade Name/Synonyms : Sodium hypochlorite pentahydrate

CAS number : 7681-52-9

Application : General chemical reagent, Bleaching agent

SECTION 2: HAZARDS IDENTIFICATION

HAZARD PICTOGRAM:



NFPA RATINGS:

HEALTH : 3
FLAMMABILITY : 0
REACTIVITY : 2
SPECIAL : OXIDISER

Risk Phrases : R31 Contact with acids liberates toxic gas.
R34 Causes burns.

Safety Phrases : S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 - In case of accident or if you feel unwell, seek medical advice immediately
S24/25 - Avoid contact with skin and eyes.
S36/37/39 -Wear suitable protective clothing, gloves and eye/face protection.

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

DCM Shriram Ltd.
[Unit: SHRIRAM ALKALI & CHEMICALS]

Name	Content
SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE	10-13%

SECTION 4: FIRST AID MEASURES

GENERAL INFORMATION

First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water.
Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Unless contact has been slight and no discomfort is felt, obtain medical attention.

EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Water spray.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed Chlorine compounds.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Small Spillages: Absorb with sand or other inert absorbent.

Large Spillages: Absorb spillages with sand, earth or other inert material. Collect spillage in

DCM Shriram Ltd.
[Unit: SHRIRAM ALKALI & CHEMICALS]

containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate well.

SECTION 7: HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists.

STORAGE PRECAUTIONS: Store away from: Acids. Store in well ventilated place , original containers in a cool, dry place. Store away from direct sunlight and moisture

STORAGE CLASS : Corrosive

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. If vapours or mists are generated, work in a fume cupboard.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection if vapours or mists are generated. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

HAND PROTECTION

Use full length gloves. Rubber or plastic Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. Wear plastic apron and full length gloves if handling large amounts. If there is a risk of splashing then wear a face shield.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: Liquid
COLOUR	: Colourless to pale yellow
ODOUR	: Chlorine
SOLUBILITY	: Miscible with water
BOILING POINT(°C)	: Approx. 96 – 99 at 760 mm Hg
VAPOUR DENSITY (air=1)	: 2.49
LEL	: Not applicable
UEL	: Not applicable
FLASH POINT	: Not applicable

DCM Shriram Ltd.
[Unit: SHRIRAM ALKALI & CHEMICALS]

SECTION 10: STABILITY AND REACTIVITY

STABILITY : Limited storage life.

CONDITIONS TO AVOID : Avoid heat & Avoid contact with acids.

MATERIALS TO AVOID : Acids (liberation of chlorine). Amines, Alcohols, glycols, Organic nitrites, Inorganic nitrites, Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS :Chlorine.

SECTION 11: TOXICOLOGICAL INFORMATION

Name	Std	TWA - 8 hrs	STEL - 15 min
SODIUM HYPOCHLORITE SOLUTION, ... % Cl	OES	1.5(Chlorine) mg/m ³	2.9 (Chlorine) mg/m ³

TOXIC DOSE 1 - LD 50 8200 mg/kg (oral rat)

INHALATION : Inhalation may cause coughing, choking, irritation (possibly severe), chemical burns, shortness of breath, and pulmonary edema. Pulmonary edema may develop several hours after a severe acute exposure.

INGESTION : Not a likely route of exposure in occupational settings. If swallowed, may cause irritation, swelling, pain, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

SKIN CONTACT : Causes burns.

EYE CONTACT : Causes severe burns and serious eye damage. Immediate first aid is imperative.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Ecological effects cannot be excluded in the event of improper handling or disposal. May cause long-term adverse effects in the aquatic environment.

DEGRADABILITY

Readily degradable in water

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste and residues in accordance with local authority requirements.

DCM Shriram Ltd.
[Unit: SHRIRAM ALKALI & CHEMICALS]

SECTION 14: TRANSPORT INFORMATION



PROPER SHIPPING NAME : SODIUM HYPOCHLORITE SOLUTION
UN NO. (ROAD, AIR, SEA) : 1791
HAZCHEM CODE : 2X
CLASS NO. : Class 8- Corrosive substances

SECTION 15: REGULATORY INFORMATION

- Refer Section-2
- As per National and State regulations.

SECTION 16: OTHER INFORMATION

Name of the firm	Address	Contact Person in Emergency	Telephone no.
Shriram Alkali Chemicals (SAC)	&749, GIDC Estate Jhagadia. Pin-393110 Dist: Bharuch	Head of Production	Telephone NOS : 02645- 222000/222015

Chlor- Alkali emergency response network toll free No. : 1800-11-1735

Disclaimer:

Shriram Alkali and Chemicals (SAC) provides this information which is commonly known and generally available in respect of this product; but makes no representation as to its comprehensiveness or accuracy. This information is given only as a guide to the appropriate precautionary handling of the material by a trained person. Persons receiving the information must use their judgment in determining its appropriateness for a particular purpose. SAC makes no representations or warranties, either express or implied, including without limitations any warranties of merchantability, fitness for a particular purpose with respect to the information given herein or the product to which the information refers. Accordingly, SAC will not be responsible for damages resulting from use of or reliance upon this information.