

## SAFETY DATA SHEET

# SODIUM HYPOCHLORITE

### SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

<b>1.1 Product identifier:</b>	
<b>CAS Number:</b>	7681-52-9
<b>EC number:</b>	231-668-3
<b>1.2 SYNONYMS:</b>	<ul style="list-style-type: none"><li>• Sodium oxychloride</li><li>• Liquid bleach</li></ul>

### SECTION 2: Hazards identification:

<b>2.1 Classification of the substance or mixture:</b>	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
<b>2.2 Label elements:</b>	Labelling according to Regulation (EC) No 1272/2008 Skin irritation, (Category 2) Serious eye damage, (Category 1) Short-term (acute) aquatic hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 2)
<b>Hazard Pictograms:</b>	
<b>Signal Word:</b>	Danger
<b>Hazard statements:</b>	<b>H315:</b> Causes skin irritation. <b>H318:</b> Causes serious eye damage. <b>H410:</b> Very toxic to aquatic life with long lasting effects.
<b>Precautionary Statements:</b>	<b>P261:</b> Avoid breathing dust. <b>P264:</b> Wash skin thoroughly after handling. <b>P280:</b> Wear protective gloves/protective clothing/eye protection/face protection. <b>P273:</b> Avoid release to the environment. <b>P303+P361+P353:</b> IF ON SKIN (or hair): Remove/take off immediately

	<p>all contaminated clothing. Rinse skin with water/shower.</p> <p><b>P305+P351+P338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p><b>P301+P312:</b> IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.</p> <p><b>P404:</b> Store in a closed container.</p> <p><b>P501:</b> Dispose of contents/ container to an approved waste disposal plant.</p>
<b>2.3 Other hazards:</b>	
<b>Inhalation:</b>	can cause coughing, throat and lung irritation, shortness of breath, and in severe cases, pulmonary edema or chemical pneumonia.
<b>Ingestion:</b>	can cause burning of the mouth, throat, and stomach, nausea, vomiting, abdominal pain, and in severe cases, tissue damage, shock, or systemic toxicity.
<b>Skin Contact:</b>	can cause irritation, redness, burning, chemical burns, and, with prolonged exposure, tissue damage.
<b>Eye contact:</b>	can cause severe irritation, redness, pain, tearing, and in severe cases, corneal damage or permanent vision impairment.
<b>Chronic Exposure:</b>	can lead to persistent skin and respiratory irritation, dermatitis, chronic bronchitis, and potential damage to eyes or mucous membranes over time.
<b>Aggravation of pre-existing conditions:</b>	can aggravate pre-existing respiratory conditions (like asthma or chronic bronchitis), skin disorders (such as eczema), and eye conditions (such as chronic conjunctivitis).

### SECTION 3: Composition/information on ingredients

<b>3.1 Chemical characterisation:</b>	Substances
<b>CAS No:</b>	Description: 7681-52-9 SODIUM HYPOCHLORITE (PURITY MAY VARY)
<b>Identification number(s):</b>	EC number: 231-668-3

### SECTION 4: First aid measures

<b>4.1 Description of first aid measures</b>	
<b>General information:</b>	
<b>After inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>After skin contact:</b>	Remove contaminated clothing immediately. Wash with plenty of water. Consult a physician.
<b>After eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
<b>After swallowing:</b>	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	Acute exposure can cause irritation of the eyes, skin, and respiratory tract, nausea, vomiting, and burns, while delayed effects may include chronic respiratory issues, dermatitis, or eye damage.
<b>4.3 Indication of any immediate medical attention and special treatment needed:</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

<b>5.1 Extinguishing media:</b>	Water, Carbon dioxide dry chemical, alcohol resistant foam.
<b>5.2 Special hazards arising from the substance or mixture:</b>	Sodium oxides, hydrogen chloride.
<b>5.3 Advice for firefighters:</b>	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
<b>5.4 further information:</b>	no data available

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
<b>6.2 Environmental precautions:</b>	Do not enter this chemical into drains.
<b>6.3 Methods and material for containment and cleaning up:</b>	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling:</b>	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material
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	Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. <b>Recommended storage: 2 - 8°C</b> <b>Suitable storage material: Poly Drum</b>
<b>Requirements to be met by storerooms and receptacles:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>7.3 Specific end uses:</b>	no data available

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	
<b>Additional information about design of technical facilities:</b>	A system of local and general exhaust is recommended.
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
<b>General protective and hygienic measures:</b>	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	<b>Respiratory protection:</b> Required.
<b>Protection of hands:</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. Wash and dry hands.
	<b>Eye protection:</b> Required
<b>Protection of Body:</b>	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b> <b>General Information</b>	
<b>Appearance: Form:</b>	liquid
<b>Colour:</b>	Pale greenish-yellow
<b>Odour:</b>	Chlorine-like, pungent
<b>pH-value:</b>	11
<b>Melting point/Melting range:</b>	18°C
<b>Boiling point/Boiling range:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Non-flammable
<b>Ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	38°C
<b>Self-igniting:</b>	None
<b>Flash point:</b>	No data available
<b>Danger of explosion:</b>	None
<b>Explosion limits: Lower:</b>	No data available
<b>Explosion limits: Upper:</b>	No data available
<b>Vapour pressure:</b>	20 Pa at 20°C
<b>Density at 20 °C:</b>	1.1 g/cm <sup>3</sup>
<b>Relative density:</b>	1.1
<b>Vapour density:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Solubility in / Miscibility with- -water at 20 °C:</b>	Highly soluble
<b>Partition coefficient:(n- -octanol/water)</b>	-3.42
<b>Viscosity:</b>	No data available

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	This chemical is stable under storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	Reacts violently with acids, releasing toxic chlorine gas.
<b>10.4 Conditions to avoid</b>	Heat, open flames, sparks, moisture.
<b>10.5 Incompatible materials</b>	Acids, ammonia and amines, reducing agents.
<b>10.6 Hazardous decomposition products</b>	Chlorine gas, sodium oxides.

## SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute Toxicity:</b>	<b>LD50</b> (Oral, Rat): no data available <b>LD50</b> (Dermal, Rabbit): no data available <b>LC50</b> (Inhalation Rat): no data available
<b>Skin corrosion/Irritation:</b>	Causes skin irritation
<b>Serious eye damage/irritation:</b>	Causes serious eye damage
<b>Respiratory damage/irritation:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity - single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Signs and Symptoms of Exposure:</b>	Refer section 2.3
<b>11.2 Additional toxicological information</b>	
<b>Biodegradability:</b>	Readily biodegradable

## SECTION 12: Ecological information

<b>12.1 Toxicity</b>	LC50(fish): no data available
<b>Aquatic toxicity:</b>	EC50(daphnia): no data available

	ErC50(algae): no data available
<b>12.2 Persistence and degradability:</b>	Readily biodegradable
<b>12.3 Bioaccumulative potential:</b>	Low bioaccumulative
<b>12.4 Mobility in soil:</b>	High mobility
<b>12.5 Other adverse effects:</b>	No data available

### SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	
<b>Uncleaned packaging Recommendation:</b>	dispose of in accordance with local hazardous waste regulations
<b>Recommended cleansing agents:</b>	Water, Sodium thiosulfate solution.

### SECTION 14: Transport information

<b>14.1 UN-Number · ADR, ADN, IMDG, IATA:</b>	3082
<b>14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:</b>	SODIUM HYPOCHLORITE
<b>14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :</b>	9
<b>14.4 Packing group · ADR, IMDG, IATA:</b>	3
<b>14.5 Environmental hazards:</b>	Yes
<b>14.6 Special precautions for user:</b>	Handle responsibly.

### SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU</b>	Directive 2012/18/EU, under that this substance is classified in listed substances as environmental hazard.
<b>Named dangerous substances:</b>	This substance is not listed in the annex 1 to the directive.
<b>15.2 Chemical safety assessment:</b>	Chemical assessment has not been carried out.

### SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the

Multichem Exports LLP.  
1315, Dalamal Tower,  
Nariman Point, Mumbai 400021, India  
T: +91 6301006301  
E: sales@multichemexports.com  
www.multichemexports.com



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