



Material Safety Data Sheet

Product Name: SODIUM HYPOCHLORITE SOLUTION

Revision date: R2-01/07/2020

Section1: Manufacturer and Substance Identification:

CHEMFAB ALKALIS LIMITED

Gnanananda place
Kalapet
Puducherry- 605014
India.

Product Name: Sodium
Hypochlorite

CAS#: Mixture.7681-52-9

Emergency Contact number:0413- 2655111
Email: chemfabalkalis@drroholings.com
Website:www.chemfabalkalis.com
AMAI CERN NO (Emergency Toll Free No): 1800-11-1735

SECTION 2: Composition/Information on ingredients

Composition:

Name	CAS #	% by Weight
Sodium hypochlorite	7681-52-9	9 - 10
Sodium hydroxide		1-2
water		Balance

Toxicological Data on Ingredients: Sodium hypochlorite: ORAL (LD50): Acute: 5800 mg/kg

SECTION 3: Hazard identification

Health Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, Hazardous in case of skin contact (corrosive), of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer).

SECTION 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.



Material Safety Data Sheet

Product Name: SODIUM HYPOCHLORITE SOLUTION

Revision date: R2-01/07/2020

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

SECTION 5: Fire Fighting Measures

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: combustible materials, metals, organic materials

Explosion Hazards in Presence of Various Substances:

Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

Fire Fighting Media and Instructions: Not applicable.

SECTION 6: Accidental Release Measures

Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

SECTION 7: Handling and Storage

Precautions:

Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice



Material Safety Data Sheet

Product Name: SODIUM HYPOCHLORITE SOLUTION

Revision date: R2-01/07/2020

immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals, acids.

Storage:

Keep container in a cool, well-ventilated area. Keep away from acids, reducing agents and combustibles.

SECTION 8: Exposure Controls/Personal Protection:

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection:

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Sodium hypochlorite TWA: 1.0, STEL: 1.0 (ppm as Cl₂) from (TLV)

SECTION 9: Physical and Chemical Properties.

Physical state and appearance: Liquid.

Odor : Characteristic. Chlorine-like (Slight.)

Taste: Not available.

Molecular Weight: Not applicable.

Color: light Greenish yellow

pH (1% solution/water): Alkaline

Critical Temperature: Not available.

Specific Gravity: (Water = 1) **1.18**

Vapor Pressure: 2.3 kPa (@ 20°C)

Vapor Density: The highest known value is 0.62 (Air = 1) (Water).

Volatility: Not available.

Solubility: Easily soluble in cold water.

SECTION 10: Stability and Reactivity.

Stability: The product is stable.



Material Safety Data Sheet

Product Name: SODIUM HYPOCHLORITE SOLUTION

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Instability Temperature: Not available.

Conditions of Instability: Incompatible materials. light, air, heat

Incompatibility with various substances: Reactive with reducing agents, combustible materials, organic materials, metals, acids.

Corrosively:

Extremely corrosive in presence of aluminum. Corrosive in presence of stainless steel (304), of stainless steel(316). Non-corrosive in presence of glass.

SECTION 11: Toxicological Information.

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

EFFECTS: Contains material which may cause damage to the following organs: lungs, mucous membranes, skin, eyes.

Other Toxic Effects on Humans:

Very hazardous in case of skin contact (irritant), of ingestion, Hazardous in case of skin contact (corrosive), of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer, lung corrosive).

Special Remarks on other Toxic Effects on Humans:

Potential Health Effects: Can cause severe irritation and possible burns to skin and eyes. Eye contact may also cause corneal and conjunctival edema, conjunctival hemorrhages.

SECTION 12: Ecological Information.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

SECTION 13: Disposal Consideration.

Waste Disposal:

Dilute with water and flush to sewer if local ordinances allow otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: Transport Information:

DOT Classification: Class 8: Corrosive material



Material Safety Data Sheet

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Corrosive Symbol:



SECTION 15: Regulatory Information:

Protective Equipment:

Gloves, Full suit, Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

SECTION 16: Other Information:

The Information provided in this MSDS is given in good faith and is correct to the best of our knowledge and information at the date of Publication. It is designed only a guidance of safe handling, transportation, use and disposal. No Warranty is expressed or implied.

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Revision History:

Revision	Effective date	Changed Date