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THE BTTCO OVERSEAS

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from local roots to global routes

Material Safety Data Sheet
SODIUM HYPOCHLORITE SOLUTION

Section 1 - Chemical Product and Company Identification

MSDS Name : SODIUM HYPOCHLORITE SOLUTION
Chemical Name : Sodium Hypochlorite
Synonyms : Liquid Bleach, Bleach Solution, Sodium Oxychloride, Bleach, Hypo, Hypochlorite, Liquid Chlorine Solution
Chemical Formula : NaOCl
Molecular Weight : 74.44 g/mol
CAS No : 7681-52-9
UN No : UN 1791
Hazz Class : 8
Packing Group : III

Company Identification : The BTTCO Overseas
6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall,
Navrangpura, Ahmedabad – 380009

Telephone Number : +91-94265 96891
Contact Person : Mr. Dinesh Lunkad

Section 2 Composition, Information on Ingredients

Chemical Name/ Ingredient	CAS #	EC No	Percent
Sodium Hypochlorite Bleach	7681-52-9	231-668-3	12.5% V/V
Sodium Hydroxide	1310-73-2	215-185-5	4.0%

Section 3 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.

		
GHS07 Health Hazard (Warning)	GHS05 Corrosive	GHS09 Hazardous to the Environment

POTENTIAL HEALTH EFFECTS

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

Section 4 First Aid Measures

Eye Contact : 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.

Skin Contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Inhalation : Move person to fresh air. If person is not breathing, call a doctor, then give artificial respiration, preferably mouth-to-mouth if possible.

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

Fire extinguishing media : Water fog. Foam. Dry chemical powder. Carbon dioxide.
Flash Point : Not applicable.
Auto ignition Temperature: Not applicable.
Explosion : Upper: No data available & Lower: No data available

Hazardous Combustion Products : Not Pertinent

Specific Hazards Arising from the Chemical : May decompose, generating irritating chlorine gas. Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause explosion with release of toxic gases.

NFPA Rating

Health: 3 Flammability: 0 Instability: 1 Special hazards: OX

Section 6 - Accidental Release Measures

Personal Precautions : Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch 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.

Environmental precautions: Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

Methods and materials for containment and cleaning up : Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Never return spills in original containers for re-use.

Section 7 - Handling and Storage

Handling

Avoid contact with skin or eyes. Do not ingest. Avoid inhalation of vapour or mist. Wear protective equipment if necessary. Mix only with water in accordance with label directions. Mixing this product with ammonia, acids, detergents, etc. or with organic materials, e.g. faces, urine, etc. will release chlorine gas, which is irritating 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 vented container. Keep container closed when not in use. Do not store adjacent to chemicals that may react if spillage occurs. If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition).

Section 8 - Exposure Controls, Personal Protection

Exposure controls

Exposure Guidelines:

Component	OSHA PEL	ACGIH TWA
Sodium Hypochlorite	Not established.	Not established.
Chlorine*	0.5 ppm	0.5 ppm
*Chlorine is unlikely to be present as a decomposition product but may be present in incidents of accidental mixing with other chemicals.		

Engineering measures : Local exhaust ventilation to maintain levels below STEL (Short Term Exposure Limit) of 1 ppm as chlorine.

Personal protective Equipment

Eye/Face protection : Wear safety glasses, goggles or face shield to prevent eye 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 vapor or mist. When airborne exposure limits are exceeded (see below), use approved respiratory protection equipment appropriates to the material and/or its components. Full face piece equipment is recommended and, if used, replaces need 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 - Physical and Chemical Properties

Appearance : Greenish yellow liquid
Solubility : Mixes infinitely with water.
Odor : Pungent

Auto-ignition temperature	: No information available.
pH	: 11.2 – 11.4 (1% solution)
Viscosity	: 1.75-2.50 centipoises (varies with temperature)
Melting Point/Freezing point	: - 16 °C
Flammability (solid, gas)	: Not flammable.
Initial boiling point and boiling range	: Slowly decomposes above 40°C.
Decomposition Temperature	: Decomposes @ 110°C
Vapor Pressure	: 12.1 mm Hg @ 20 0C
Relative Vapor Density	: 2.61 (air=1)
Relative Density	: 1.2 g/mL @ 20 0C
Oxidizing Properties	: Not Oxidizing

Section 10 - Stability and Reactivity

Stability : Unstable at temperatures above 40°C, in sunlight, and in contact with acid.

Reactive Hazard : Rate of decomposition increases with heat. May develop chlorine if mixed with acidic solutions.

Conditions to Avoid : High heat, ultraviolet light.

Incompatibility with various substances : Oxidizing agents, acids, nitrogen containing organics, metals, iron, copper, nickel, cobalt, organic materials, and ammonia.

Hazardous Decomposition: Chlorine (by reaction with acids), oxygen (by reaction with nickel, copper, tin, manganese, iron), sodium chloride, sodium chlorate, with increased temperature.

Hazardous Polymerization: Will not occur.

Hazardous Reactions : No information available.

Section 11 - Toxicological Information

Acute toxicity : Oral Toxicity (LD50): 8.91 g/kg (Rat)
Carcinogenicity : Not considered to be carcinogenic (IARC and ACGIH)

Section 12 - Ecological Information

Eco toxicity : Sodium hypochlorite is low in toxicity to avian wildlife, but it is highly toxic to freshwater fish and invertebrates.

Other : In seawater, chlorine levels decline rapidly; however, hypobromite (which is acutely toxic to aquatic organisms) is formed.

Section 13 - Disposal Considerations

Waste Disposal : Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a local regulations.

Product : 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 packaging : No data Available.

Section 14 - Transport Information

DOT/IMDG/IMO/IATA

Proper Shipping Name : Hypochlorite Solutions (Sodium Hypochlorite)
UN No : UN 1791
CAS No : 7681-52-9
EMS No : F-A, S-B
IMDG-Packaging Group : III
Marine Pollutant : Yes (Environmentally Hazardous to the Aquatic Environment)
Class : Class 8 (Corrosive)
Packing Group : III
Subsidiary Risks : None
Label Required : Class 8 (Corrosive) Label AND Marine Pollutant Mark

	
Class 8 (Corrosive substances)	**GHS09 Hazardous to the Environment**

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:

This document is provided solely as a guideline for the safe handling of the material by trained and qualified personnel using this product. Users are responsible for evaluating the suitability of the information for their specific applications and conditions of use. Although the information and recommendations contained herein are believed to be accurate and reliable as of the date of issue, BTTCO GROUP makes no representations or warranties regarding their completeness or accuracy and assumes no liability for any loss, damage, or consequences resulting from reliance on this information.

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