



ITTEHAD CHEMICALS LIMITED

Kala Shah Kaku

MSDS-Sodium Hypochlorite

Doc. # MSDS-ICL-NaOCl

Effective Date: 01.01.2011

Rev. # 00

Material Safety Data Sheet

Sodium Hypochlorite Liquid Bleach

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Address:

HEAD OFFICE:

39 Empress Road, P.O Box 1414, Lahore-54000-Pakistan

PABX: 6306586-88 & 6306482 Fax: 6365697

WORKS:

G.T Road, Kala Shah Kaku, District Sheikhupura-Punjab, Pakistan

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MATERIAL SAFETY DATA SHEET SODIUM HYPOCHLORITE

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MATERIAL SAFETY DATA SHEET

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Sodium Hypochlorite

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Company Identification:

Ittehad Chemicals Limited
20 K.M G.T Road Kala Shah Kaku
District Sheikhpura-Punjab, Pakistan

Contact Numbers

- (042) 37950221, 37950210, 37950209, 37950211 (round the clock)
- (042) 37950222,23,24,25, 37980045,46, 37980121, 37980454
(Exchange # from 0830 -1630)
- (042) 36314857, 36306586, 87, 88, 36306482
Lahore Office during 0900-1700 hrs
- Not on Sundays & Holidays

Note: For any change in Telephone Numbers please contact **17** of **PTCL** for assistance.

Trade Name: Liquid Bleach

Synonyms: Chlorine bleach, Soda bleach

Product Use: Bleaching agent, Chemical Intermediate, Sodium Hypochlorite is an antimicrobial pesticide.

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2. MATERIAL IDENTIFICATION:

Trade Name	Liquid Bleach
Molecular Formula	NaOCl
CAS Number	7681-52-9

3. EMERGENCY OVERVIEW:

Signal Word: DANGER

MAJOR HEALTH HAZARDS:

Causes severe skin burns. Causes serious eye damage, causes damage to respiratory system

PHYSICAL HAZARDS: CORROSIVE.

AQUATIC TOXICITY: Toxic to fish and aquatic organisms.

PRECAUTIONARY STATEMENTS: Do not breathe mist, vapors, or spray. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye, and face protection. Do not eat, drink or smoke when using this product. Keep only in original container. Avoid release to the environment. Store in a secure manner, store in corrosive resistant container with a resistant inner liner such as titanium or tantalum.

POTENTIAL HEALTH EFFECTS:

Inhalation: Inhalation may cause coughing, choking, irritation and pulmonary edema.

Skin contact: Skin contact may be irritating and corrosive.

Eye contact: May cause irritation (possibly severe), chemical burns, eye damage, and blindness.

Ingestion: Ingestion may cause irritation, corrosion of gastrointestinal tract, pain and vomiting.

TARGET ORGAN(S): Eye, Skin, Respiratory System

Interaction with Other Chemicals Which Enhance Toxicity: Not known

Medical Conditions Aggravated by Exposure: Not known

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4. COMPOSITION INFORMATION:

Components	CAS Number	Proportion	Risk Phrases
Sodium hypochlorite	7681-52-9	18 ~ 20%	R31, R34, R41, R50
Sodium hydroxide	1310-73-2	<1%	R35, R41
Water	7732-18-5	>60%	

5. FIRST AID MEASURES:

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer basic life support (Cardio-Pulmonary Resuscitation and/or Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. Discard footwear which cannot be decontaminated. GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT: Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting.

Give large amounts of water. If vomiting occurs spontaneously, keep airway clear.

Give more water when vomiting stops.

GET MEDICAL ATTENTION IMMEDIATELY.

Notes to Physician: The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage.

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6. FIRE-FIGHTING MEASURES:

Fire Hazard: May release toxic gases

Fire Fighting: Wear an approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Flash point: Not flammable

Hazardous Combustion Products: Hydrogen chloride, Chlorine

7. ACCIDENTAL RELEASE MEASURES:

Occupational Release:

Eliminate all sources of ignition. Stop leak if possible without personal risk. Shovel dried residue into suitable container.

Liquid material may be removed with a vacuum truck. Keep out of water supplies and sewers. Stay upwind and keep out of low areas. Evacuation of surrounding area may be necessary for large spills. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

Absorb spillage to prevent material damage.

8. HANDLING AND STORAGE:

Storage Conditions:

Store and handle in accordance with all current regulations and standards. Store in a cool, dry area;

Keep locked-up. Store in a corrosion resistant container such as titanium or tantalum with an adequate relief device; Store in a well-ventilated area; Avoid direct sunlight. Avoid heat, flames, sparks and other sources of ignition. Keep separated from incompatible substances

Handling Procedures:

Avoid breathing vapor or mist; do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use only with adequate ventilation.

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9. PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered.

Hand Protection: Wear appropriate chemical resistant gloves

Protective Material Types: Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC)

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. Acid gas cartridges may be required if decomposition products are present. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

10. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State	Liquid
Appearance	Clear
Color	Colorless to Yellow
Odor	Characteristic bleach odor
Odor Threshold	2 ppm approx.
Flash Point	Not Flammable
Boiling Point/Range	230 F (110 C)
Decomposition temperature	230 F (110 C)
Vapor Pressure	No data available
Density	9.9 - 10.5 lb/gal
Specific Gravity (water=1)	1.27
Water Solubility	100%
pH	12

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11. DISCLAIMER:

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. No warranty of merchantability or of fitness for a particular purpose, or warranty or guaranty of any other kind, express or implied, is made regarding performance, safety, suitability, stability or otherwise. This information is not intended to be all inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Ittehad Chemicals Ltd. Assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer.

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