

Middle School

## \*\*\*\* Material Safety Data Sheet \*\*\*\*

Hi-Iex Corporation  
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**I - Product Identification**

Product Name: Various Branded & Private Label Fragranced Names  
CAS Name & Number: Liquid Bleach, 7681-52-9  
Chemical Family: Sodium Hypochlorite  
Chemical Formula: NaOCl

**II - Hazardous Ingredients**

<u>Component</u>	<u>% (WT &amp; VOL)</u>	<u>TLV (UNITS)</u>
Sodium Hypochlorite	5.25% by weight 5.80% by volume	1 ppm (Chlorine Gas)

**III - Physical Data**

Appearance	Pale Yellow Liquid
Odor	Fragranced or Typical Bleach Odor
Boil Point	217°F
Melting Point	N/A
Freezing Point	12°F
Specific Gravity (water = 1.0)	1.082
Vapor Density (air = 1.0)	19.2
Vapor Pressure (mm Hg.)	16
Volatiles by Weight (%)	90
pH	12.4
Solubility in Water	Complete
Evaporation Rate (* = 1)	N/A
*Butyl Acetate	

**IV - Fire & Explosion Hazard Data**

Flash Point (°F)	N/A
Flammable Limits (% by volume)	Non-Flammable Solution
Flammability Classification	N/A
Extinguisher Media	Use water in flooding quantities as fog.

**Special Fire Fighting Procedures**

Wear NIOSH-approved self-contained breathing apparatus for chlorine gas vapors. Cool fire-exposed containers with water spray.

**Unusual Explosion & Procedures**

Bleach decomposes when heated to high temperatures may cause containers may rupture.

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**V - Health Hazards**


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**Chemical Name - Sodium Hypochlorite**

Potential Carcinogen?	No
National Toxicology Program	No
I.A.R.C. Monograph	No
OSHA	No

**Overexposure Characteristics**

Route of Entry	Inhalation-Likely Skin - Likely Ingestion-Likely
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**Health Hazards (Acute & Chronic) For Product:**

Acute	Depending on solution concentration, material may be corrosive to skin, mucous membranes and eyes and vapors may cause respiratory irritation.
Chronic	May cause damage or injury to eyes, skin and respiratory organs.

**Emergency & First Aid Procedures**

Inhalation	Inhalation of vapors may cause bronchial irritation, coughing, difficult breathing, pulmonary edema.
Eyes	Accidental eye contact with liquid or vapors may produce moderate to severe irritation.
Skin	Skin contact may result in blistering and eczema.
Ingestion	If swallowed, may cause burning sensation and corrosion of mucous membranes, esophageal or gastric perforation, laryngeal edema, vomiting, nausea. Get Medical help immediately.

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**VI - Reactivity Data**


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Stability	Unstable
Conditions To Avoid	Heat
Polymerization	Hazardous polymerization does not occur

Contents To Avoid	Acids, ammonia, organic compounds, heavy metals and salts thereof, and oxidizing or reducing compounds.
Hazardous Decomposition rupture.	Chlorine, chlorine dioxide, chloramines Decomposition products may cause containers rupture.

### VII - Precautions For Safe Handling & Use

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Steps to be taken in case material is released or spilled:

Eye Protection	Avoid splashing into eyes. Wear splash-proof, chemical resistant safety goggles.
Skin Protection	Avoid repeated or prolonged skin contact. Wear protective clothing including rubber gloves, rubber boots and face shield.
Respiratory Protection	Avoid inhalation or fumes. Stay upwind of spill. Wear NIOSH-approved respiratory protection.
Handling	Use normal procedures for handling caustic substances.
Storage	Store in a cool, dark place away from heat and light and combustible materials. Store below 90°F. Keep containers well closed. Provide adequate ventilation.
Normal Clean Up	Dilute with copious amounts of water and then mop up.
Waste Disposal	Flush with water to sewer in accordance with all federal, state and local environmental regulations.

### VIII - First Aid & Medical Procedures

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Eyes	Flush eyes thoroughly with running water for at least 15 minutes. Get prompt medical attention.
Skin	Rinse thoroughly with running water. If irritation persists, contact physician or local poison control center.
Inhalation	If inhalation occurs, remove victim to fresh air. Provide symptomatic care and support respiration. Get prompt medical attention.
Ingestion	Immediately give large quantities of water or milk to dilute. Do not induce vomiting. Get prompt medical attention.
Other	Remove all contaminated clothing and/or shoes

**IX - Control Measures, Occupational**

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Respiratory Protection	None Required
Ventilation	Maintain adequate ventilation Local Exhaust - Maintain adequate ventilation Mechanical (General) - N/A Special - N/A
Protective Gloves	Rubber
Eye Protection	Splash-proof, chemical resistant safety goggles
Other Protective Clothing or Equipment	Uniforms, coveralls, or labcoats, chemical resistant footwear.
Other Protection	Provide eye bath and emergency shower. Launder soiled work clothing before re-use.

**X - Additional Information**

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DOT Proper Shipping	Sodium Hypochlorite Bleach
DOT/EPA Hazard Class	N/A
Label Required	<b>DANGER: Poison.</b> Keep away from heat. May be fatal or cause blindness if swallowed. Cannot be non-poisonous.

**IMPORTANT:** The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state, and local laws and regulations. **HI-LEX CORPORATION MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN.** Hi-lex Corporation will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete, or otherwise misleading.

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