

**MATERIAL SAFETY DATA SHEET**

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**24 Hour Emergency Response (800) 255-3924**

\*\*\*TRADE NAME: **BLEACH (MSDS #2802)**\*\*\*

\*\*\* CHEMICAL OR COMMON NAME:

\*\*\* Liquid Bleach 5.25%\*\*\*

**HAZARDOUS COMPONENTS**

MATERIAL	CAS #	%	TLV(ppm)	OTHER
1. Sodium Hypochlorite	7681-52-9	5.25		
2. Sodium Hydroxide	1310-73-2	<2		

**PHYSICAL DATA**

BOILING PT(Deg F): >Decomposes	FREEZE PT(Degrees F): 32
SPECIFIC GRAVITY: 1.09	SOLUBILITY IN WATER: Soluble (100%)
APPEARANCE: Clear Liquid	VOLATILES(% by WT.): 91
PERCENT ACTIVE : 5.25	VAPOR DENSITY(AIR=1): >1
VAPOR PRESSURE(@ 68 Degrees F): <17 mm Hg	ODOR: Pungent
EVAPORATION RATE(BUTYL ACETATE=1): >1	pH 12-13
***< means less than; > means more than	VOC= N/A

\*\*\*These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**FIRE AND EXPLOSION HAZARD INFORMATION**

FLASH POINT (Deg F Setflash): N/A	AUTOIGNITION TEMP (Deg F): No Data
FLAMMABLE LIMITS IN AIR Volume %:	Lower: No Data Upper: No Data
EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CO <sub>2</sub> , DRY CHEMICAL.	
SPECIAL FIREFIGHTING PROCEDURES: Evacuate non-essential people. Firefighters should wear self-contained breathing apparatus with a full facepiece in positive pressure mode.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: Use water fog/spray to cool and lower the pressure of fire exposed containers, to flush vapors away.	

**NFPA HAZARD RATING**

Health (blue): 2	Flammability(red): 0	Reactivity (yellow): 1
Least - 0	Slight - 1	Moderate - 2 High - 3 Extreme -4

**HEALTH HAZARD DATA**

\*\*\*It is important to determine whether exposure is to concentrated or dilute product. The information included in this document is intended to deal with exposure to concentrated product. Generally, exposure to diluted product will result in substantially less risk of injury than described herein.

PRINCIPLE ROUTES OF EXPOSURE: Eyes, skin contact.

EFFECTS OF ACUTE OVER EXPOSURE:

CONTACT WITH EYES: Causes burns.

CONTACT WITH SKIN: Contact with concentrate solution will result in dry skin. Prolonged or repeated contact may cause burns or injury.

INHALATION: Vapors or mists may cause irritation of nasal and respiratory passages.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting, or diarrhea.

EFFECTS OF CHRONIC OVEREXPOSURE: No data.

**EMERGENCY AND FIRST AID PROCEDURES**

EYES: In case of contact immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN: Wash affected skin area with soap and water.

INHALATION: If discomfort is experienced, remove to fresh air. If breathing is difficult, give oxygen and call physician.

INGESTION: Give moderate amounts of water. Call a physician.

**TOXICITY DATA**

SUSPECTED CANCER AGENT: NO  
PROPOSITION 65: NO

OSHA REGULATED: NO  
NTP & IARC: NO

**REACTIVITY DATA**

STABILITY: UNSTABLE

CONDITIONS TO AVOID: Heat, temperature extremes, light.

MATERIALS TO AVOID: Strong acids, reducing agent.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Hydrogen chloride, chlorine and/or oxygen.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

**SPILL OR LEAK PROCEDURES**

WARNING: The floor surface may be slippery: Use care walking, working, and standing.

LARGE SPILLS: (Over 55 gallons) Evacuate non-essential personnel. Wear appropriate protective clothing and rubber boots. Shut off source of leak if safe to do so.

SMALL SPILLS: Mop up and rinse area.

WASTE DISPOSAL METHOD: Dispose of wastes in accordance with federal, state and local regulations.

**SPECIAL PROTECTION INFORMATION**

STORAGE AND HANDLING PRECAUTIONS: Store away from acids, ammonia and reducing agents.  
VENTILATION AND ENGINEERING CONTROLS: In confined areas provide local exhaust or any other device for ventilation.

PROTECTIVE GLOVES: Use of rubber gloves will decrease skin dryness and coating of the skin.

RESPIRATORY PROTECTION: For mists and sprayed material use NIOSH approved respirator.

EYE PROTECTION: Chemical splash glasses or face shield.

**SPECIAL PRECAUTIONS**

PRECAUTIONARY STATEMENTS: CAUTION: **KEEP OUT OF REACH OF CHILDREN**

Do not get in eyes, on skin or on clothing. Do not take internally.

OTHER PROTECTIVE EQUIPMENT: Eyewash, Protective clothing.

D.O.T. INFORMATION: This product **IS NOT** D.O.T. Regulated.

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