



# MATERIAL SAFETY DATA SHEET

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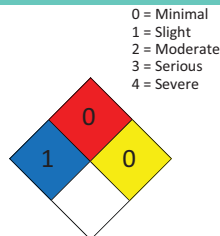
Section 1 Chemical Product and Company Name		
Product	<b>BLEACH SOLUTION, 10%</b>	ITEM No: CASE-B001
Synonyms	0.6% Sodium hypochlorite solution	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	99%	None established
Sodium hypochlorite	7681-52-9	<1%	STEL: 1ppm as Cl <sub>2</sub>
Sodium hydroxide	1310-73-2	<1%	TWA: 2mg/m <sup>3</sup>

Section 3 Hazards Identification										
WARNING! CORROSIVE! HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OR EYE BURNS. MAY CAUSE SKIN IRRITATION.		0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe								
		<table><tr><td>Health</td><td>2</td></tr><tr><td>Flammability</td><td>0</td></tr><tr><td>Physical Hazard</td><td>1</td></tr><tr><td>Personal Protection</td><td>C</td></tr></table>	Health	2	Flammability	0	Physical Hazard	1	Personal Protection	C
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HMIS										

Section 4 First Aid Measures	
<b>INGESTION:</b> Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.	
<b>INHALATION:</b> Remove to fresh air. Get medical attention if necessary.	
<b>EYE CONTACT:</b> Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention immediately.	
<b>SKIN CONTACT:</b> Flush thoroughly with mild soap and water. Remove contaminated clothing. Get medical attention if	

Section 5 Fire Fighting Measures	
Nonflammable liquid. When heated to decomposition, emits toxic fumes of Na <sub>2</sub> O and Cl <sub>2</sub> Contact with metals can generate hydrogen gas.	
<b>Extinguishing Media:</b> Use TriClass, dry chemical extinguisher for surrounding fires. Firefighters should use self-contained breathing apparatus and protective clothing.	
<b>Flash point:</b> N/A <b>Autoignition temperature:</b> N/A <b>Explosion limits:</b> Lower: N/A      Upper: N/A	



Section 6 Accidental Release Measures	
Restrict unprotected personnel from the area. Contain the spill with inert absorbent material and deposit in a sealed bag or container. Ventilate and wash spill area with soap and water.	

Section 7 Handling and Storage	
Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. <b>Handling:</b> Use hood or with adequate ventilation. Avoid breathing vapor. Wash hands thoroughly after handling. <b>Storage:</b> Store away from acids, alkalies, reducing agents combustibles. Keep container in cool, well-ventilated area.	

Section 8 Exposure Controls/ Personal Protection	
<b>Engineering controls:</b> Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. <b>Respiratory protection:</b> Non should be needed if normal laboratory handling at room temperature. Use a NIOSH-approved respirator with proper cartridge when handling this material in emergency situations.	

Section 9 Physical and Chemical Properties	
<b>Physical state:</b> Liquid <b>Appearance:</b> Transparent, Colorless to yellow. <b>Odor:</b> Mild bleach odor <b>pH:</b> Basic <b>Vapor Pressure ( mm Hg):</b> not available <b>Vapor Density:</b> the highest known is 0.62 <b>Evaporation Rate:</b> Not available	<b>Boiling point:</b> The lowest know is 100°C <b>Melting point:</b> ~ 0 °C/32 <b>Freezing point:</b> 0°C/32 °F <b>Decomposition temp:</b> >40C°/104 °F <b>Solubility:</b> Miscible in water <b>Specific gravity (H<sub>2</sub>O = 1):</b> 1.011 at 20°C <b>Percent volatile (%):</b> Not available <b>Molecular formula:</b> Mixture <b>Molecular weight:</b> Mixture

Section 10 Stability and Reactivity	
<b>Chemical Stability:</b> Stable <b>Conditions to Avoid:</b> Heat, light, air and incompatible materials. <b>Incompatibilities:</b> Reducing agents, metals, acids, organic compounds. Ammonium compounds, <b>Hazardous decomposition:</b> Chlorine gas may be evolved when ammonia and bleach are mixed <b>Hazardous polymerization:</b> Will not occur.	

Section 11 Toxicological Information	
<b>Effects of overexposure:</b> Eyes: Can cause irritation and possible burns to eyes. Prolonged or repeated eye contact may cause conjunctivitis. Ingestion can cause burns to digestive tract. Symptoms may include pain and inflammation of the mouth, pharynx, esophagus and stomach. Nausea vomiting, choking and hemorrhage may be associated with ingestion. Circulatory collapse with cold and clammy skin due to methemoglobinemia, cyanosis and shallow respirations. Skin: May cause skin irritation. Inhalation: Prolonged or repeated inhalation may cause allergic respiratory reaction.	

Acute oral toxicity ORAL LD<sub>50</sub>: 8910mg/kg [Rat]; 5800mg/kg [Mouse]  
Acute vapor toxicity IHL-LC<sub>50</sub>: not available  
DERMAL LD<sub>50</sub>: not available

Section 12 Ecological Information	
Ecotoxicity in water LC <sub>50</sub> 0.030mg/L 96h [Fish(Oncorhynchus mykiss)]. 0.033-0.044mg/L 48h [Daphnia(daphnia)].	

Section 13 Disposal Considerations	
Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.	

Section 14 Transport Information	
<b>UN number:</b> 1791 <b>Shipping name:</b> Sodium hypochlorite solution <b>Hazard Class:</b> 8 <b>Packing group:</b> PG III <b>Exceptions:</b> Ltd Qty. ≤4L	

Section 15 Regulatory Information	
TSCA 8(b) Inventory: Water; Sodium hypochlorite. DSCL (EEC) R31-Contact with acids liberates toxic gases. S28–After contact with skin wash immediately with water. R34-Causes burns. S45-In case of accident or if you feel unwell seek immediate medical advise.	

Section 16 Other Information	
The Material Safety Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Lab-Aids, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond Lab-Aids, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).	