

IDENTITY (As used on Label and List): **BUCKMAN'S LIQUID SHOCK 12.5%**

Section 1

Manufacturer's Name James Austin Company	Emergency Telephone Number: CHEMTREC: (800) 424-9300
Manufacturer's Address P.O. Box 827 Mars, PA 16046	Telephone Number for Information (800) 245-1942
Date Prepared May 3, 2004	DOT Shipping Name: Hypochlorite Solution
Revision: No. 8	DOT Hazardous Substance: RQ 100 lbs
	DOT Hazardous Guide: # 60

Section 2: Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS

SPECIFIC CHEMICAL IDENTITY:	<u>Sodium Hypochlorite</u>	<u>Sodium Hydroxide</u>
UN #	1791	1824
CAS NUMBER:	7681-52-9	1310-73-2
OSHA PEL	None Established	2 mg/m ³ ceiling
ACGIH TLV	None Established	2 mg/m ³ ceiling
% (OPTIONAL)	12.5% - 12.7%	0.25% - 0.33%
DOT CLASSIFICATION	Corrosive	Corrosive

NFPA Hazard Designation

Health	3 - Warning, Corrosive. Avoid skin and eye contact, inhalation, or ingestion.
Flammability	0 - Non combustible.
Reactivity	1 - Caution: May decompose if heated.
Personnel Protection	H - Safety Goggles, Gloves, Apron, Vapor Respirator

Section 3: Physical/Chemical Characteristics

Boiling Point:	220°F	Melting Point	5°F
Vapor Pressure (mm Hg.)	-----	Evaporation Rate(Butyl Acetate=1)	-----
Vapor Density (AIR=1)	-----	Appearance and Odor	Clear - Light Yellow
Solubility in Water	Completely Soluble		liquid with characteristic
Specific Gravity (H2O=1)	1.20 - 1.21		Chlorine Odor.

Section 4: Fire and Explosion Hazard Data

Flash Point (Method Used)	Non-Flammable
Flammable Limits	N/A
LEL	-----
UEL	-----
Extinguishing Media	Suitable for surrounding fire
Special Fire Fighting Procedures	Wear self-contained breathing apparatus with full protective clothing. Avoid body contact and inhalation of fumes.
Unusual Fire and Explosion Hazards Strong oxidizer. Contact with combustibles may initiate or promote combustion. Acids and heat accelerate decomposition. Decomposition products may include chlorine. Toxic fumes can be liberated by heat or decomposition.	

Section 5: Reactivity Data

Stability	Product is stable and decomposes naturally with age.
Conditions to Avoid	Excessive exposure to heat and light, or contact with incompatible materials.
Materials to Avoid	Acids, ammonia, metals, combustibles, detergents, reducing agents, oxidizable materials, chlorinated isocyanurates.
Hazardous Decomposition Byproducts	Chlorine, Hydrochloric Acid, Hypochlorous Acid, Oxygen.

IDENTITY (As used on Label and List):

BUCKMAN'S LIQUID SHOCK 12.5%

Section 6: Health Hazard Data

Routes of Entry:	Inhalation	Yes	Skin	Yes	Ingestion	Yes
Health Hazards (Acute and Chronic)						
Acute:	Severe irritant to skin, eyes, nose, throat and gastrointestinal tract. Prompt treatment is important to minimize effects of overexposure.					
Chronic:	Eyes:	Severe irritant				
	Skin:	Severe irritant				
	Inhalation:	Irritant to respiratory tract				
	Ingestion:	Corrosion of mucous membranes; perforation of esophagus and stomach. May lead to convulsions, coma and death.				
Carcinogenicity:	NTP:	Not listed				
	IARC Monographs	Not listed				
	OSHA Regulated	Not listed				
Signs and Symptoms of Exposures:						
	Eyes and Skin:	Severe irritation and reddening.				
	Respiratory Tract:	Coughing and irritation. May cause shortness of breath, sore throat and labored breathing.				
	Ingestion:	Nausea and vomiting, possible perforation of esophagus and stomach, convulsions, coma and death.				
Medical Conditions Generally Aggravated by Exposure			Vapors may aggravate respiratory ailments.			
Emergency and First Aid Procedures						
	Eyes:	Flush with water for at least 15 minutes and call physician.				
	Skin:	Flush affected areas with plenty of water. Remove contaminated clothing and wash with soap and water. If skin is burned, call physician.				
	Inhalation:	Remove victim to fresh air and call physician if breathing is difficult.				
	Ingestion:	Rinse mouth with water. Drink large amounts of water and/or milk. Do not induce vomiting. Call Physician. DO NOT USE BAKING SODA OR ACIDIC ANTIDOTES.				

Section 7: Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Toxic to fish and aquatic life. Do not allow material to enter sewers, streams, ponds, storm drains. Personnel involved with clean-up must be equipped with NOISH approved respiratory protection, eye protection, rubber boots, rubber gloves and protective clothing.

Waste Disposal Method:

Do not absorb spills with flammable materials such as sawdust or combustible absorbents. Contain spills in as small an area as possible for neutralization and dilution. Absorbent material is best placed in plastic containers. Dispose of residue in accordance with Federal, State and Local regulations.

Precautions to be Taken in Handling and Storing.

Store in ventilated containers away from sunlight; separate from acids, heat, oxidizing materials, ammonia, hydrocarbons, alcohols, ethers or isocyanurates. Store in cool area.

Other Precautions:

Do not mix with other cleaning agents containing acids or ammonia. These may liberate chlorine and chloramines upon mixing. Avoid wearing contact lenses when handling this product. Do not store in metal containers.

IDENTITY (As used on Label and List):

BUCKMAN'S LIQUID SHOCK 12.5%

Section 8: Control Measures

Respiratory Protection:	Self-contained breathing apparatus suitable for acid gas and chlorine should be used for strong concentration.		
Ventilation:	Local Exhaust:	Yes	Mechanical (General): Recommended
Protective Gloves: Rubber	Eye Protection: Chemical Splash Goggles		
Other Protective Clothing or Equipment:	Eye wash station; safety shower; hard hats; Rubber boots; Protective Clothing.		
Work/Hygienic Practices:	Avoid skin and vapor contact. Wash thoroughly after using.		

Section 9: Additional Information

TSCA INVENTORY: Listed

SARA TITLE III HAZARD CATEGORIES: Health: Immediate: (Acute)
Physical: Reactive Hazard

When empty, returnable containers must be shipped in accordance with Federal, State and DOT regulations. All residual product must be removed by triple rinsing the container with water.

This product is regulated by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) if used as a sanitizer or disinfectant. Repackagers must obtain EPA Registration and Establishment numbers.

DISCLAIMER:

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable Federal and State law(s). However, no warranty or representation with respect to such information is intended or given.

It is the user's obligation to determine the conditions of safe use of this product. Each user should study this Material Safety Data Sheet to become aware of the product hazards. Additional resources may have to be consulted to insure safe handling, storage and use.