



MATERIAL SAFETY DATA SHEET

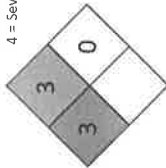
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Chemical Product and Company Name				
Section 1		ITEM No: CASE-B006		
Product	SOLUTION A			
Synonyms	Denatured alcohol and hydrochloric acid solution.			
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300			
Section 2				
Composition/Ingredients Information		TLV Units		
Chemical Name	CAS#	%	TLV Units	
Ethanol Hydrochloric Acid	64-17-5	N/A	TWA: 1000ppm	
	7647-01-0	N/A	STEL: 5mg/m³	

Section 3		Hazards Identification									
DANGER! FLAMMABLE! CORROSIVE! TOXIC BY INGESTION AND INHALATION. CORROSIVE TO EYES, SKIN AND MUCOUS MEMBRANE. HARMFUL IF INGESTED INHALED AND IF ABSORBED THROUGH SKIN. Target organs: liver, kidneys, CNS depressant											
		0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe	<table><tr><td>Health</td><td>3</td></tr><tr><td>Flammability</td><td>3</td></tr><tr><td>Physical Hazard</td><td>0</td></tr><tr><td>Personal Protection</td><td>C</td></tr></table>	Health	3	Flammability	3	Physical Hazard	0	Personal Protection	C
Health	3										
Flammability	3										
Physical Hazard	0										
Personal Protection	C										
		HMIS									

Section 4		First Aid Measures
INGESTION: 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.		
INHALATION: Remove to fresh air. Get medical attention if necessary.		
EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.		
SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention if irritation develops.		

Section 5		Fire Fighting Measures
Flammable and corrosive liquid.		0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe 
Extinguishing Media: Use TriClass, dry chemical extinguisher or water spray for small fires. Water spray to cool fire-exposed containers and structures. Firefighters should use self-contained breathing apparatus and protective clothing.		
Flash point: 58°F		
Autoignition temperature: 683°F		
Explosion limits: Lower: 3.3%		Upper: 19.0%

Section 6	Accidental Release Measures
Restrict unprotected personnel from the area. Contain the spill with an inert absorbent material and deposit in a sealed bag or container. For small spill use paper towel. Place the wet medium under the hood or outside the building to minimize a vapor concentration in the area. Do not leave it unattended. Dry material place in trash. 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. Vapor forms from this product and may travel, or be moved by air currents and ignited by pilot lights, static discharges, flames, sparks, heaters or other ignition sources.	
Handling: Use hood or with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor. Wash hands thoroughly after handling.	
Storage: Flammable cabinet. Keep container in cool, well-ventilated area.	

Section 8		Exposure Controls/ Personal Protection
Engineering controls: 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.		
Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use NIOSH approved respiratory protection in high vapor concentrations.		
Section 9		Physical and Chemical Properties
Physical state: Liquid		Boiling point: Not available
Appearance: Transparent, Colorless, Clear.		Melting point: N/A
Odor: Strong alcohol odor. Fragrant		Freezing point: Not available
pH: Acidic		Decomposition temp: N/A
Vapor Pressure (mm Hg): Not available		Solubility: Miscible in water and many organic solvents.
Vapor Density: Not available		Specific gravity (H₂O = 1): Not available
Evaporation Rate: Not available		Percent volatile (%): Not available
Viscosity: Not available		Molecular formula: Mixture
		Molecular weight: N/A
Section 10		Stability and Reactivity
Chemical Stability: Stable		Conditions to Avoid: High temperatures, sparks open flames and incompatible materials.
Incompatibilities: Strong oxidizing agents, acids, peroxides, acid chlorides, acid anhydrides, alkali metals, ammonia. Alkali metals, metals, organic materials, amines.		
Hazardous decomposition: Not available		
Hazardous polymerization: Will not occur.		

Section 11	Toxicological Information
Effects of overexposure: Eyes: Corrosive to eyes. Splashes may cause severe burns and permanent eye damage. Skin: Corrosive to skin. Can cause redness, pain and severe skin burns if not washed off immediately. Inhalation: Vapors are irritating to mucous membrane and eyes. Inhalation of vapors can cause coughing, choking. Inflammation of the nose, throat, and upper respiratory tract. Ingestion: Toxic. Harmful if swallowed. Swallowing hydrochloric acid can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. Ingested doses of alcohol will produce nausea, dizziness and headache.	
ORAL LD ₅₀ : Ethanol: 7060mg/kg [Rat]. 3450mg/kg [Mouse]	
VAPOR LC ₅₀ : Ethanol: 2000ppm 8h [Rat]. 39000 mg/m ³ 4h [Mouse]	
Acute oral toxicity ORAL LD ₅₀ : 900mg/kg[Rabbit], as hydrochloric acid	
Acute vapor toxicity IHL-LC ₅₀ : 3124ppm [Rat]/1h, as hydrochloric acid	
DERMAL LD ₅₀ : not available	

Section 12		Ecological Information
Data not available.		
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
UN number: 2924		
Shipping name: Flammable liquid, corrosive, n.o.s.		
Hazard Class: 3, 8		
Packing group: PG II		
Exceptions: Lty Qty ≤1L		
Section 15		Regulatory Information
TSCA-listed, EINECS-listed (200-578-6) as alcohol. TSCA-listed, EINECS-listed (231-595-7) as hydrochloric acid. WHMIS (Canada): CLASS E: Corrosive liquid. DSCl (IEC) R34-Causes burns,		

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).		