

MSDS - Material Safety Data Sheet

Product Name: Explosive Detection Kit

MSDS No.: EDK100

I. Basic Information:

Manufacturer: Law Enforcement Associates Corp.

Address: 100 Hunter Place

City, ST Zip: Youngsville, NC 27596

Emergency Contact: Matt Ray

Emergency Telephone Number: 800-354-9669

Contact:

Information Telephone Number: 919-554-4700

Last Update: 01-28-2008

Expiration Date:

Chemical State: Liquid Gas Solid

Chemical Type: Pure Mixture



2	Health
0	Flammability
0	Reactivity
J	Pers. Protection

II. Ingredients:

Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
122394	Diphenylamine	<1.0					X		10 mg/m3	10 mg/m3	307 F
7664939	Sulfuric acid	72	X		X				1 mg/m3	1 mg/m3	554 F
7732185	Water	28							None	None	212 F

III. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Danger! Contains sulfuric acid.

Strong oxidizer. Contact with other material may cause fire. Corrosive. Harmful if swallowed. Causes skin and eye burns. May cause severe respiratory and digestive tract irritation with possible burns.

IV. First Aid Measures:

Route(s) of Entry:

Eyes, skin, ingestion and inhalation.

Health Hazards (Acute and Chronic):

Potential Health Effects:

ACUTE:

EYES: Causes severe eye burns. May cause irreversible eye injury.

SKIN: Causes skin burns.

INGESTION: May cause severe and permanent damage to digestive tract. Causes gastrointestinal tract burns

INHALATION: Harmful if inhaled. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract.

CHRONIC:

Prolonged or repeated inhalation may cause nosebleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pain and bronchitis. Prolonged or repeated eye contact may cause conjunctivitis.

MSDS - Material Safety Data Sheet

Product Name: Explosive Detection Kit

MSDS No.: EDK100

Signs and Symptoms:

Itching or burning of the skin and eyes, gastrointestinal tract, and respiratory tract

Medical Conditions Generally Aggravated by Exposure:

Diseases of the eyes, skin, respiratory and gastrointestinal tract.

Emergency and First Aid Procedures:

EYES: Flush with water for at least 15 minutes while occasionally lifting eyelids. Get medical attention immediately. Do not allow victim to rub eyes or keep them closed.

SKIN: Get medical attention immediately. Flush with water for at least 15 minutes while removing contaminated clothing and shoes.

INGESTION: DO NOT INDUCE vomiting. If conscious, give 2-4 cups of water or milk. Get medical attention immediately.

INHALATION: Get medical attention immediately. Remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, have qualified personnel administer oxygen. DO NOT use mouth-to-mouth respiration.

Other Health Warnings:

N/A

V. Fire Fighting Measures:

Flash Point: NA

Lower Explosive Limit: NA

Upper Explosive Limit: NA

F.P. Method: NA

Fire Extinguishing Media: Strong oxidizer. Contact with combustible materials may cause fire. Use CO2 or dry chemical. Contact with water may cause liberation of heat and splattering of material. Contact with metals may evolve hydrogen gas. Cool containers with flooding quantities of water until well after fire is out.

Special Fire Fighting Procedures:

Wear protective clothing and approved self-contained breathing apparatus.

Unusual Fire and Explosion:

Contact with certain metals and combustible materials may cause fire.

VI. Accidental Release Measures:

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

Wear vapor respirator, safety goggles, and rubber gloves. Remove sources of ignition (i.e. open flames, sparks). Soak up with inert absorbent material (do not use flammable substances such as sawdust). Ventilate and wash spill site after collection.

Dispose according to local, state, and federal regulations.

VII. Handling and Storage:

Precautions to be Taken:

Do not store near combustible materials. Store in a cool, dry, well-ventilated area. Keep away from incompatible materials.

Other Precautions:

Oxidizer. Corrosive.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use only in a well-ventilated area or use with a chemical fume hood/exhaust.

Personal Protective Equipment:

MSDS - Material Safety Data Sheet

Product Name: Explosive Detection Kit

MSDS No.: EDK100

Chemical resistant gloves, safety goggles or glasses with side shields, protective clothing and approved chemical vapor respirator.

IX. Physical and Chemical Properties:

Boiling Point: 554 F

Melting Point: NA

Evaporation Rate (Butyl Acetate = 1): NA

Vapor Pressure (mm Hg.): .00120 mm

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): 1.2 kg/m3

Solubility In Water: Soluble

Appearance and Odor: Clear liquid, slight odor

Other Information:

X. Stability and Reactivity:

Stability:

Stable under normal temperatures and pressures.

Incompatibility (Materials to Avoid):

Most metals, salts, alkaline materials and saline solutions.

Decomposition/By Products:

Oxides of sulfur.

Hazardous Polymerization:

Has not been reported.

XI. Toxicological Information:

TOXIC:

Inhalation, mouse: LC50=320 mg/m3/2H

Inhalation, rat: LC50=510 mg/m3/2H

Oral, rat: LD50=2140 mg/kg

Carcinogenicity:

Sulfuric Acid:

ACGIH: A2 Suspected human carcinogen

OSHA: Select carcinogen

IARC: Group 1 carcinogen

XII. Ecological Information:

Harmful to aquatic life. Keep from entering sewers, streams and rivers.

XIII. Disposal Considerations:

Dispose of according to local, state, and federal regulations.

XIV. Transport Information:

US DOT:

Shipping name: Sulfuric Acid

Hazard Class 8

UN No. 1830

Packing Group II

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XV. Regulatory Information:

Sulfuric acid can be found in the following state right to know lists: CA, NJ, FL, PA, MN, MA.
California: No significant risk level.

XVI. Other Information:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

Using this product under normal, properly instructed procedures should not be hazardous.