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MSDS COVER SHEET

Pages including cover sheet: 4

Product Name: **Diluent**

Catalog Number: **40-4050-XX**

Product Description: Acetonitrile, Anhydrous

Glen Research Corporation provides Material Safety Data Sheets (MSDS) based on the hazardous components of each product.

Components and MSDS attached

Acetonitrile (100%)

CAS number

75-05-8



Material Safety Data Sheet

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Section I: Identification & Information

Product Name: Diluent

Product Description: Anhydrous Acetonitrile

Catalog Number: 40-4050-XX

Trade Name: Acetonitrile

Chemical Family: Nitrile

Synonyms: Methyl Cyanide, Cyanomethane, and Ethyl Nitrile

Formula: CH₃CN

M.W.: 41.05

DOT Proper Shipping Name: Acetonitrile

DOT Identification No.: UN1648 CAS No.: 75-05-8

DOT Hazard Class: Flammable Liquid

Section II: Physical Properties

Appearance: Clear, colorless liquid
Vapor Pressure @ 20°C: 73mmHg
Percent Volatile by Volume: ca 100
Evaporation Rate (BuAc =1): 5.79
Boiling Point: 180°F (82°C)
Freezing point: -46°C (-51°F)

Odor: Sweet, aromatic; ether-like
Vapor Density (air=1): 1.42
Specific Gravity (H₂O=1): 0.7857
Stability: Stable
Solubility in H₂O: Soluble
Water Reactive: n/a

Section III: Reactivity Hazard Data

Stable material at room temperature in closed containers under normal storage and handling conditions. Hazardous polymerization is not expected to occur.

Conditions to avoid: Heat, sparks, open flames, open containers, poor ventilation, and direct sunlight.

Materials to avoid: Strong oxidizing agents and strong acids and bases (e.g. chlorosulfonic acid), explosives, nitrogen-fluorine compounds, sulfites, perchlorates, reducing agents, and plastics.

Hazardous decomposition products: Incomplete combustion can generate hydrogen cyanide and other toxic vapors.

Emergency First Aid:

- Ingestion: Call poison control center for assistance. Get emergency medical assistance. If conscious, and alert, give 2-4 cupfuls of water or milk. Never induce vomiting or give anything by mouth to a victim who is unconscious or having convulsions. Trained persons may administer amyl nitrate by inhalation as antidote where stupor or unconsciousness occurred.
- Eye contact: Rinse with copious amounts of water for at least 15 minutes. Get emergency medical assistance.
- Skin contact: Flush thoroughly with water for at least 15 minutes. Wash affected skin with soap and water. Remove contaminated clothes and shoes. Wash clothing before reuse. Get emergency medical assistance.
- Inhalation: Immediately remove to fresh air. If not breathing, give artificial respiration. Keep patient warm and at rest. Get emergency medical assistance.

Section VII: Special Protection

Ventilation: Adequate ventilation is required to control vapors and odor.

Respiratory Protection: Use approved respiratory equipment. Follow NIOSH and equipment manufacturer's recommendations to determine appropriate equipment.

Skin Protection: Protective rubber gloves and clothing are recommended. The choice of material must be based on chemical resistance and other user requirements.

Eye Protection: Laboratory safety glasses are minimum protection. Goggles are preferred.

Emergency eye wash fountains and safety showers should be available in the vicinity of any potential exposure. Ground and bond metal containers to minimize sparks.

Section VIII: Spill and Disposal Procedures

Wear protective clothing and use approved respiration equipment. If a spill occurs, protect from ignition. Use water spray to dilute spill to a non-flammable mixture. Ventilate area of spill. Absorb spilled material in an absorbent recommended for solvent spills and scoop with a nonsparking tool. Remove waste to a safe location for disposal by approved methods. If released to the environment, comply with all regulatory notification requirements.

Waste Disposal: Dispose of acetonitrile as an EPA Hazardous Waste.

Section IX: Storage

Acetonitrile should be stored in a cool area away from ignition sources, combustibles and oxidizing materials. Protect from temperature extremes and direct sunlight.

This chemical is subject to the notification requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986. This law requires certain manufacturers to report on annual emissions of specified toxic chemical and chemical categories.

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Key:

ca: Approximately

PEL: Permissible Exposure Level

STEL: Short Term Exposure Level

TWA: Time Weighted Average

IDLH: Immediately Dangerous to Life and Health

BuAc: Butyl Acetate

TLV: Threshold Limit Value

n/a: not available