Section 1 - Product and Company Information

Product Name: ACETONITRILE-D3, 99.6 ATOM % D (1PK=10 X 0.75ML)
Product Number: 441317
Brand: Aldrich Chemical

Company: Sigma-Aldrich
Street Address: 3050 Spruce Street
City, State, Zip, Country: St. Louis, MO 63103 US
Technical Phone: 314 771 5765
Fax: 800 325 5052
Emergency Phone: 414 273 3850 Ext.5996

Section 2 - Composition/Information on Ingredient

Substance Name: ACETONITRILE 99 ATOM % D
CAS #: 2206-26-0
SARA 313: No
Formula: C2D3N
Synonyms:

Section 3 - Hazards Identification

Emergency Overview
Flammable (USA) Highly Flammable (EU). Toxic. Toxic by inhalation, in contact with skin, and if swallowed. Irritating to eyes, respiratory system, and skin. Target organ(s): Central nervous system. Liver.

HMIS Rating
Health: 2 Flammability: 4 Reactivity: 1

NFPA Ratings
Health: 2 Flammability: 4 Reactivity: 1

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Inhalation Exposure
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Information for Physician
Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water.

Section 5 - Fire Fighting Measures

Explosion Hazards
Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

Flash Point: 42.8 °F  6 °C
Autoignition Temp: N/A Flammability: N/A

Extinguishing Media
Suitable
Carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable
Water may be effective for cooling, but may not effect extinguishment.

Firefighting
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)
Extremely flammable. Vapor may travel considerable distance to source of ignition and flash back. Emits toxic fumes under fire conditions.

Exposure Hazard(s)
Material
Toxic. Irritant.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill
Evacuate area. Shut off all sources of ignition.

Procedure(s) of Personal Precaution(s)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up
Cover with an activated carbon adsorbent, take up and place in closed containers. Transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
Suitable
Keep container closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

Personal Protective Equipment
Respiratory
NIOSH/MSHA-approved respirator.
Hand
Compatible chemical-resistant gloves.
Eye
Chemical safety goggles.

General Hygiene Measures
Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Color</th>
<th>Form</th>
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<tbody>
<tr>
<td>Physical State</td>
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Molecular Weight: 44.08 AMU

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Section 10 - Stability and Reactivity

Stability
Conditions of Instability
Protect from moisture.
Conditions to Avoid
Protect from moisture.
Materials to Avoid
Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.

Hazardous Decomposition Products
Hazardous Decomposition Products
Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides.

Hazardous Polymerization
Section 11 - Toxicological Information

Route of Exposure

Skin Contact
Causes skin irritation.

Skin Absorption
Toxic if absorbed through skin.

Eye Contact
Causes eye irritation.

Inhalation
Toxic if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion
Toxic if swallowed.

Target Organ(s) or System(s)

RTECS Number:  N/A

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: Acetonitrile
UN#: 1648
Class: 3
Packing Group: Packing Group II
PIH: Not PIH

IATA
Proper Shipping Name: Acetonitrile
IATA Number: 1648
Hazard Class: 3
Packing Group: II

Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: F T

Indication of Danger
Highly Flammable. Toxic.

Risk Statements
R: 11 23/24/25
Highly flammable. Toxic by inhalation, in contact with skin, and if swallowed.

Safety Statements
S: 16 27 45
Keep away from sources of ignition - no smoking. Take off immediately all contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
US Classification and Label Text

Indication of Danger
Flammable (USA) Highly Flammable (EU). Toxic.

Risk Statements
Toxic by inhalation, in contact with skin, and if swallowed. Irritating to eyes, respiratory system, and skin.

Safety Statements
Keep away from sources of ignition - no smoking. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

US Statements
Target organ(s): Central nervous system. Liver.

Handling and Storage
Store under nitrogen. Hygroscopic.

United States Regulatory Information
SARA 313 Listed: No

Section 16 - Other Information

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2000 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.