

Material Safety Data Sheet

Date Printed: 06/23/2000 Date Updated: 02/25/2000 Version 1.10

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 City, State, Zip, Country 3050 Spruce Street St. Louis, MO 63103 US

Technical Phone:

314 771 5765

800 325 5052

Emergency Phone:

414 273 3850 Ext.5996

Fax:

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

ACETONITRILE 99 ATOM % D

2206-26-0

No

Formula Synonyms C2D3N

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.

Eve

Chemical safety goggles.

General Hygiene Measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Liquid

Physical State

Color

Form

760 mmHg

Colorless

Clear liquid

Molecular Weight:

44.08 AMU

Property

рΗ

<u>Value</u> N/A

80.7 °C

At Temperature or Pressure

BP/BP Range MP/MP Range Freezing Point Vapor Pressure

N/A N/A N/A N/A

Vapor Density Saturated Vapor Conc. SG/Density

N/A 0.84 g/cm3

Bulk Density
Odor Threshold
Volatile%
VOC Content
Water Content

N/A N/A N/A N/A N/A N/A

Solvent Content
Evaporation Rate
Viscosity
Partition Coefficient
Decomposition Temp.
Flash Point °F
Flash Point °C

N/A N/A 42.8 °F 6 °C

N/A

Explosion Limits
Autoignition Temp
Refractive Index
Solubility

N/A 1.342 N/A

N/A

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

Hazardous Polymerization

Will not occur.

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)

Central nervous system. Liver. Kidneys. Blood. Lungs.

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.