

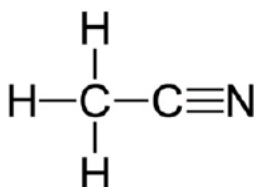
CAS-No.: 75-05-8 MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance  
:  
EC Index-No. : 608-001-00-3  
EC-No. : 200-835-2  
CAS-No. : 75-05-8  
Product code : 00017  
Formula : C<sub>2</sub>H<sub>3</sub>N  
Chemical structure :



Synonyms : Methyl cyanide / ACN

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries  
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,  
Ludhiana Pb. (141007)  
+91 9316777775, +91 7707855700  
[sales@labogens.com](mailto:sales@labogens.com) - [www.Labogens.com](http://www.Labogens.com)

#### 1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H225  
Category 2  
Acute toxicity (dermal), H312  
Category 4  
Acute toxicity (inhal.), H332

# ACETONITRILE 99.9% HPLC & UV Spectroscopy

## Safety Data Sheet

Category 4  
Acute toxicity (oral), H302  
Category 4  
Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11  
Xn; R20/21/22  
Xi; R36

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled  
H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : ACETONITRILE 99.9% HPLC & UV Spectroscopy  
CAS-No. : 75-05-8  
EC-No. : 200-835-2  
EC Index-No. : 608-001-00-3

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Full text of R- and H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.                    |
| First-aid measures after skin contact | : Take off contaminated clothing. Wash with plenty of water/.... If skin irritation occurs: Get medical advice/attention.  |
| First-aid measures after eye contact  | : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Rinse mouth out with water. If you feel unwell, seek medical advice.   |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Symptoms/effects after inhalation   | : Harmful if inhaled.            |
| Symptoms/effects after skin contact | : Harmful in contact with skin.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. |
| Symptoms/effects after ingestion    | : Harmful if swallowed.          |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). |
| Unsuitable extinguishing media | : Do not use a heavy water stream.  |

### 5.2. Special hazards arising from the substance or mixture

|                  |  |
|------------------|--|
| Fire hazard      | : Highly flammable liquid and vapour.              |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |
|--------------------------------|--|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |   |
|------------------|---|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Use personal protective equipment as required. |
| Emergency procedures | : Stop release.                                  |

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| Methods for cleaning up | : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. |
|-------------------------|--|

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### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Handle empty containers with care because residual vapours are flammable.                                    |
| Precautions for safe handling     | : No open flames. No smoking. Use only non-sparking tools.   |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |   |
|------------------------|---|
| Technical measures     | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. |
| Storage conditions     | : Keep in fireproof place. Keep container tightly closed.   |
| Incompatible materials | : Heat sources.   |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

|                          |                                      |
|--------------------------|--------------------------------------|
| Hand protection          | : protective gloves                  |
| Eye protection           | : Chemical goggles or safety glasses |
| Skin and body protection | : Wear suitable protective clothing  |
| Respiratory protection   | : Wear appropriate mask              |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Molecular mass                             | : 41.05 g/mol       |
| Colour                                     | : Clear Colorless.  |
| Odour                                      | : ether odor.       |
| Odour threshold                            | : No data available |
| pH   | : 7                 |
| Relative evaporation rate (butylacetate=1) | : 5.79              |
| Melting point                              | : -46 °C            |
| Freezing point                             | : No data available |
| Boiling point                              | : 81.6 °C           |

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|                                  |  |
|----------------------------------|--|
| Flash point                      | : 2 °C   |
| Auto-ignition temperature        | : 524 °C   |
| Decomposition temperature        | : No data available                                |
| Flammability (solid, gas)        | : Flammable<br>Highly flammable liquid and vapour. |
| Vapour pressure                  | : 9.7 kPa  |
| Relative vapour density at 20 °C | : 1.4  |
| Relative density                 | : No data available                                |
| Density                          | : 0.79 g/cm <sup>3</sup>                           |
| Relative gas density             | : 1.4  |
| Solubility                       | : Water: Complete                                  |
| Log Pow                          | : No data available                                |
| Viscosity, kinematic             | : No data available                                |
| Viscosity, dynamic               | : No data available                                |
| Explosive properties             | : No data available                                |
| Oxidising properties             | : No data available                                |
| Explosive limits                 | : No data available                                |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Direct sunlight. Sparks. Overheating.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled. Oral: Harmful if swallowed.

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|   |   |
|---|---|
| Skin corrosion/irritation                           | : Not classified<br>pH: 7                             |
| Serious eye damage/irritation                       | : Causes serious eye irritation.<br>pH: 7             |
| Respiratory or skin sensitisation                   | : Not classified                                      |
| Germ cell mutagenicity                              | : Not classified                                      |
| Carcinogenicity                                     | : Not classified                                      |
| Reproductive toxicity                               | : Not classified                                      |
| STOT-single exposure                                | : Not classified                                      |
| STOT-repeated exposure                              | : Not classified                                      |
| Aspiration hazard                                   | : Not classified                                      |
| Potential adverse human health effects and symptoms | : Harmful if swallowed. Harmful in contact with skin. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Additional information                     | : Handle empty containers with care because residual vapours are flammable.   |

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### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1648 |
| UN-No. (IMDG) | : 1648 |
| UN-No. (IATA) | : 1648 |
| UN-No. (ADN)  | : 1648 |
| UN-No. (RID)  | : 1648 |

#### 14.2. UN proper shipping name

|                                       |  |
|---------------------------------------|--|
| Proper Shipping Name (ADR)            | : ACETONITRILE                           |
| Proper Shipping Name (IMDG)           | : ACETONITRILE                           |
| Proper Shipping Name (IATA)           | : Acetonitrile                           |
| Proper Shipping Name (ADN)            | : ACETONITRILE                           |
| Proper Shipping Name (RID)            | : ACETONITRILE                           |
| Transport document description (ADR)  | : UN 1648 ACETONITRILE, 3, II, (D/E)     |
| Transport document description (IMDG) | : UN 1648 ACETONITRILE, 3, II (2°C c.c.) |
| Transport document description (IATA) | : UN 1648 Acetonitrile, 3, II            |
| Transport document description (ADN)  | : UN 1648 ACETONITRILE, 3, II            |
| Transport document description (RID)  | : UN 1648 ACETONITRILE, 3, II            |

#### 14.3. Transport hazard class(es)

##### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR)              | : 3 |



##### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 3 |
| Danger labels (IMDG)              | : 3 |



##### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 3 |
| Hazard labels (IATA)              | : 3 |



##### ADN

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADN) | : 3 |
|----------------------------------|-----|

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Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : F1

Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T7

Portable tank and bulk container special provisions (ADR) : TP2

Tank code (ADR) : LGBF

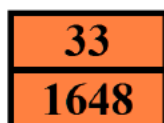
Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : •2YE

#### - Transport by sea

Limited quantities (IMDG) : 1 L



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|                                 |            |
|---------------------------------|------------|
| Excepted quantities (IMDG)      | : E2       |
| Packing instructions (IMDG)     | : P001     |
| IBC packing instructions (IMDG) | : IBC02    |
| Tank instructions (IMDG)        | : T7       |
| Tank special provisions (IMDG)  | : TP2      |
| EmS-No. (Fire)                  | : F-E      |
| EmS-No. (Spillage)              | : S-D      |
| Stowage category (IMDG)         | : B        |
| Stowage and handling (IMDG)     | : SW2      |
| Flash point (IMDG)              | : 2°C c.c. |
| MFAG-No                         | : 127      |

### - Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L   |
| PCA packing instructions (IATA)              | : 353  |
| PCA max net quantity (IATA)                  | : 5L   |
| CAO packing instructions (IATA)              | : 364  |
| CAO max net quantity (IATA)                  | : 60L  |
| ERG code (IATA)                              | : 3L   |

### - Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : F1        |
| Limited quantities (ADN)          | : 1 L       |
| Excepted quantities (ADN)         | : E2        |
| Carriage permitted (ADN)          | : T         |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 1         |

### - Rail transport

|   |                     |
|---|---------------------|
| Classification code (RID)                                 | : F1                |
| Limited quantities (RID)                                  | : 1L                |
| Excepted quantities (RID)                                 | : E2                |
| Packing instructions (RID)                                | : P001, IBC02, R001 |
| Mixed packing provisions (RID)                            | : MP19              |
| Portable tank and bulk container instructions (RID)       | : T7                |
| Portable tank and bulk container special provisions (RID) | : TP2               |
| Tank codes for RID tanks (RID)                            | : LGBF              |
| Transport category (RID)                                  | : 2                 |
| Colis express (express parcels) (RID)                     | : CE7               |
| Hazard identification number (RID)                        | : 33                |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

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ACETONITRILE 99.9% HPLC & UV Spectroscopy is not on the REACH Candidate List

ACETONITRILE 99.9% HPLC & UV Spectroscopy is not on the REACH Annex XIV List

### 15.1.2. National regulations

#### Germany

- Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV; ID No. 8)
- 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : The substance is not listed
- SZW-lijst van mutagene stoffen : The substance is not listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

#### Denmark

- Class for fire hazard : Class I-1
- Store unit : 1 liter
- Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed
- Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-statements:

|                           |   |
|---------------------------|---|
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4           |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4           |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4             |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2              | Flammable liquids, Category 2                 |
| H225                      | Highly flammable liquid and vapour.           |

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|           |  |
|-----------|--|
| H302      | Harmful if swallowed.  |
| H312      | Harmful in contact with skin.                                |
| H319      | Causes serious eye irritation.                               |
| H332      | Harmful if inhaled.  |
| R11       | Highly flammable   |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed |
| R36       | Irritating to eyes   |
| F         | Highly flammable   |
| Xi        | Irritant   |
| Xn        | Harmful  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*