

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### ACETONITRILE AR (METHYL CYANIDE)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : ACETONITRILE AR (METHYL CYANIDE)

Product code : SS0100400500

Identification of the product : Acetonitrile  
CAS No :75-05-8  
EC No :200-835-2  
Annex No :608-001-00-3

Chemical formula : C<sub>2</sub>H<sub>3</sub>N

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

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

##### Classification EC 67/548 or EC 1999/45

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

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332  
Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ACETONITRILE AR (METHYL CYANIDE)**
**2. Hazards identification -DSD (continued)**
**2.2. Label elements**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

: F : Highly flammable  
 Xn : Harmful

**R Phrase(s)**

: R11 : Highly flammable.  
 R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.  
 R36 : Irritating to eyes.

**S Phrase(s)**

: S1/2 : Keep locked up and out of reach of children.  
 S16 : Keep away from sources of ignition - No smoking.  
 S36/37 : Wear suitable protective clothing and gloves.

**Contains**

: Acetonitrile

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**

**Signal words**

: Danger

**Hazard statements**

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

**Precautionary statements**
**• General**

: P102: Keep out of reach of children.  
 P103: Read label before use.  
 P101: If medical advice is needed, have product container or label at hand.

**• Prevention**

: P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.  
 P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking.  
 P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P271: Use only outdoors or in a well-ventilated area.  
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.  
 P233: Keep container tightly closed.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.

## MATERIAL SAFETY DATA SHEET (MSDS)

### ACETONITRILE AR (METHYL CYANIDE)

#### 2. Hazards identification -DSD (continued)

- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.  
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P363: Wash contaminated clothing before reuse.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P370+P378: In case of fire: Use for extinction.
- **Storage** : P403+P235: Store in well-ventilated place. Keep cool.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Contains** : Acetonitrile

#### 2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

**Substance / Preparation** : Acetonitrile  
CAS No :75-05-8  
EC No :200-835-2  
Annex No :608-001-00-3  
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Acetonitrile	100 %	75-05-8	200-835-2	608-001-00-3	----	F; R11 Xn; R20/21/22 Xi; R36 ----- Flam. Liq. 2 _ H225 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

- Inhalation** : Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

## MATERIAL SAFETY DATA SHEET (MSDS)

### ACETONITRILE AR (METHYL CYANIDE)

#### 4. First aid measures (continued)

<b>Skin contact</b>	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.
<b>Eye contact</b>	: Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
<b>Ingestion</b>	: Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

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

<b>Symptoms relating to use</b>	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes serious eye irritation. Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>General information</b>	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

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

<b>Flammable class</b>	: Highly flammable liquid and vapour.
<b>Hazardous combustion products</b>	: Under fire conditions, hazardous fumes will be present.

##### 5.3. Advice for fire-fighters

<b>Protection against fire</b>	: Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Special procedures</b>	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ACETONITRILE AR (METHYL CYANIDE)**
**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

<b>For emergency responders</b>	: Equip cleanup crew with proper protection. Ventilate area.
<b>Technical measures</b>	: Use special care to avoid static electric charges.
<b>Special precautions</b>	: Remove ignition sources. No naked lights. No smoking.
<b>For non-emergency personnel</b>	: Evacuate unnecessary personnel.

**6.2. Environmental precautions**

<b>Environmental precautions</b>	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
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**6.3. Methods and material for containment and cleaning up**

<b>Clean up methods</b>	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.
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**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

<b>Handling</b>	: Handle empty containers with care because residual vapours are flammable. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
<b>Technical protective measures</b>	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.
<b>Special precautions</b>	: No naked lights. No smoking.

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

<b>Storage</b>	: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.
<b>Storage - away from</b>	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

**7.3. Specific end use(s)**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ACETONITRILE AR (METHYL CYANIDE)**
**7. Handling and storage (continued)**

Specific end use(s) : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

Personal protection : Avoid all unnecessary exposure.

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits : No data available.

VLA-ED [ppm] : 40

VLA-ED [mg/m<sup>3</sup>] : 68

VLA-EC [ppm] : 60

VLA-EC [mg/m<sup>3</sup>] : 102

ILV (EU) - 8 H - [ppm] : ( 40 Skin. )

ILV (EU) - 8 H - [mg/m<sup>3</sup>] : ( 70 Skin. )

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C : Liquid.

Colour : Clear Colorless

Odour : Ether odor

Odour threshold : No data available.

pH value : No data available.

Melting point [°C] : -460C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : 525

Flammability (solid, gas) : Highly flammable liquid and vapour.  
Flammable.

Flash point [°C] : 20C

Boiling point [°C] : 81

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ACETONITRILE AR (METHYL CYANIDE)**
**9. Physical and chemical properties (continued)**

Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 5,79
Vapour pressure [20°C]	: 9.7kPa
Vapour pressure mm/Hg	: 73
Vapour density	: 1,4
Density [g/cm <sup>3</sup> ]	: 0,79
Relative density, gas (air=1)	: 1,4
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Complete.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 7
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.
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**10.5. Incompatible materials**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ACETONITRILE AR (METHYL CYANIDE)**
**10. Stability and reactivity (continued)**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.  
May release flammable gases.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- **Inhalation** : Harmful if inhaled.
- **Dermal** : Harmful in contact with skin.
  - LD50 Rabbit dermal [mg/kg] : 50
- **Ingestion** : Harmful if swallowed.
  - Rat oral LD50 [mg/kg] : 100

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Causes serious eye irritation.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Not established.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

**12.4. Mobility in soil**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ACETONITRILE AR (METHYL CYANIDE)**
**12. Ecological information (continued)**

**Mobility in soil** : Not established.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

**Environmental precautions** : Avoid release to the environment.

**13. Disposal considerations**
**13.1. Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions** : Handle empty containers with care because residual vapours are flammable.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

**Proper shipping name** : ACETONITRILE  
**UN N°** : 1648  
**H.I. nr** : 33  
**ADR - Class** : 3  
**Labelling - Transport** : 3 : Flammable liquid.



**ADR - Classification code** : F1  
**ADR - Group** : II  
**ADR - Packing instructions** : P001 R001  
**ADR - Limited Quantity** : 1 L  
**ADR - Tunnel code**



## MATERIAL SAFETY DATA SHEET (MSDS)

### ACETONITRILE AR (METHYL CYANIDE)

#### 14. Transport information (continued)

: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

##### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : ACETONITRILE  
UN N° : 1648  
IMO-IMDG - Class or division : 3 : Flammable liquid.  
IMO-IMDG - Packing group : II  
IMO-IMDG - Packing instructions : P001  
IMO-IMDG - Limited quantities : 1 L  
IMO-IMDG - Marine pollution : No  
EMS-Nr : F-E S-D

##### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : ACETONITRILE  
UN N° : 1648  
IATA - Class or division : 3 : Flammable liquid.  
IATA - Packing group : II  
IATA - Passenger and Cargo Aircraft : ALLOWED  
- Passenger and Cargo - Packing instruction : 353  
- Passenger and Cargo - Maximum Quantity/Packing : 5 L  
IATA - Cargo only : ALLOWED  
- Cargo only - Packing instruction : 364  
- Cargo only - Maximum Quantity/Packing : 60 L  
IATA - Limited Quantities : 1 L  
ERG-Nr : 3L

#### 15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.  
REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.  
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**ACETONITRILE AR (METHYL CYANIDE)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**