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ACETONITRILE AR (Methyl cyanide)	VERSION: 02 DATE OF ISSUE: 26-08-2019 SUPERSEDES: 01
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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: ACETONITRILE AR

Product code: 21060

Identification of the product : ACETONITRILE AR

CAS No.: 75-05-8

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: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel:

+91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,

Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number: +91 22 4066 8111 (10:00am - 6:00 pm)

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

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): F: Highly flammable

Xn: Harmful





R Phrase(s): R11: Highly flammable.

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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.

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.

• 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.

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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.

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: Preparation.

Substance nameContentsCAS NoAcetonitrile:99.9%75-05-8

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.

Skin contact: 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.

Eye contact: 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. **Ingestion**: 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

Symptoms relating to use: 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.

4.3. Indication of any immediate medical attention and special treatment needed General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand. **Unsuitable extinguishing media**: Do not use a heavy water stream.

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Surrounding fires: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Flammable class: Highly flammable liquid and vapour.

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection.

Ventilate area.

Technical measures: Use special care to avoid static electric charges.

Special precautions: Remove ignition sources. No naked lights. No smoking.

For non-emergency personnel: Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling: 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.

Technical protective measures: 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.

Special precautions: No naked lights. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

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Storage: 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.

Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s) 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.

Occupational Exposure Limits : Acetonitrile : ILV (EU) - 8 H - [mg/m³] : (70 Skin.)

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

Acetonitrile: VLA-ED [ppm]: 40 Acetonitrile: VLA-ED [mg/m³]: 68 Acetonitrile: VLA-EC [ppm]: 60 Acetonitrile: VLA-EC [mg/m³]: 102

VLA-ED [ppm] : 40 VLA-ED [mg/m³] : 68 VLA-EC [ppm] : 60 VLA-EC [mg/m³] : 102

ILV (EU) - 8 H - [ppm] : (40 Skin.) ILV (EU) - 8 H - [mg/m³] : (70 Skin.)

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at $20~^{\circ}C$: Liquid. Odour threshold: No data available.

pH value : No data available.

Melting point [°C] : -48°C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

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Auto-ignition temperature [°C]: 525 **Flammability (solid, gas)**: Flammable. Highly flammable liquid and vapour.

Flash point [°C] : 2^{0} C Boiling point [°C] : 81

Initial boiling point $[^{\circ}C]$: N/A Final boiling point $[^{\circ}C]$: N/A

Evaporation rate: 5.8

Vapour pressure [20°C] : 9.7kPa Vapour pressure mm/Hg : 73

Vapour density: 1,4 Density [g/cm3]: 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 [mm2/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. **10.2. Chemical stability**

Chemical stability: Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

 $\label{eq:materials} \textbf{Materials to avoid}: Strong\ acids.\ Strong\ bases.$

10.6. Hazardous decomposition products

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

May release flammable gases.

MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)
Tel: +91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442. Email: info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,
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11. Toxicological information

11.1. Information on toxicological effects

Toxicity information: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

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: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

12.2. Persistence - degradability

Persistence - degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Not established.

12.4. Mobility in soil

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.

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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: 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: 353

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instruction

- Passenger and Cargo - Maximum : 5 L

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 364- Cargo only - Maximum Quantity/ : 60 L

Packing

IATA - Limited Quantites : 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: Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture**

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.

15.2. Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

16. Other information

Abbreviations and acronyms: PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information: None.

In accordance with REACH R

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This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document

Prepared by: MOLYCHEM (INDIA)

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