



**Safety Data Sheet**

according to UK REACH Regulation

**Acetonitrile for drying**

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P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**SECTION 3: Composition/information on ingredients****3.1. Substances**Sum formula: C<sub>2</sub>H<sub>3</sub>N**Hazardous components**

| CAS No  | Chemical name  | Quantity     |
|---------|--|--------------|
|         | EC No  |              |
|         | Index No   |              |
|         | REACH No   |              |
|         | Classification (GB CLP Regulation)   |              |
| 75-05-8 | acetonitrile; cyanomethane   | 100 %        |
|         | 200-835-2  | 608-001-00-3 |
|         | Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H225 H332 H312 H302 H319 |              |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No  | EC No  | Chemical name                            | Quantity |
|---------|--|--|----------|
|         |  | Specific Conc. Limits, M-factors and ATE |          |
| 75-05-8 | 200-835-2  | acetonitrile; cyanomethane               | 100 %    |
|         | inhalation: LC50 = 11 mg/l (vapours); inhalation: LC50 = 11 mg/l (dusts or mists); dermal: LD50 = 988 mg/kg; oral: ATE = 500 mg/kg |  |          |

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing. Medical treatment necessary.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Water. Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.**5.2. Special hazards arising from the substance or mixture**

Combustible. Vapours may form explosive mixtures with air.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

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**General advice**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Explosion hazard.

**6.3. Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Keep container in a well-ventilated place.

**Hints on joint storage**

Do not store together with: Material, rich in oxygen, oxidizing.

**Further information on storage conditions**

Storage at below °C: +30

Protect against: Light.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

| CAS No  | Substance    | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|--------------|-----|-------------------|-----------|---------------|--------|
| 75-05-8 | Acetonitrile | 40  | 68                |           | TWA (8 h)     | WEL    |
|         |              | 60  | 102               |           | STEL (15 min) | WEL    |

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

Physical state: liquid  
 Colour: colourless  
 Odour: Ether

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**Changes in the physical state**

|   |                         |
|---|-------------------------|
| Melting point/freezing point:                             | -45,7 °C                |
| Boiling point or initial boiling point and boiling range: | 81,6 °C                 |
| Flash point:  | 2 °C                    |
| Lower explosion limits:                                   | 3 vol. %                |
| Upper explosion limits:                                   | 17 vol. %               |
| Viscosity / dynamic:<br>(at 25 °C)                        | 0.316 mPa·s             |
| Water solubility:<br>(at 20 °C)                           | easily soluble.         |
| Vapour pressure:<br>(at 20 °C)                            | 97 hPa                  |
| Density (at 20 °C):                                       | 0,786 g/cm <sup>3</sup> |

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

Keep away from heat. Ignition hazard.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Acute toxicity, oral. Acute toxicity, inhalant. Acute toxicity, dermal.

| CAS No  | Chemical name              |                |         |        |        |
|---------|----------------------------|----------------|---------|--------|--------|
|         | Exposure route             | Dose           | Species | Source | Method |
| 75-05-8 | acetonitrile; cyanomethane |                |         |        |        |
|         | oral                       | ATE 500 mg/kg  |         |        |        |
|         | dermal                     | LD50 988 mg/kg | Rabbit  | IUCLID |        |
|         | inhalation vapour          | LC50 11 mg/l   |         |        |        |
|         | inhalation dust/mist       | LC50 11 mg/l   |         |        |        |

**Irritation and corrosivity**

Irritating to eyes.

**SECTION 12: Ecological information****12.1. Toxicity**

| CAS No  | Chemical name              |                |           |                     |        |        |
|---------|----------------------------|----------------|-----------|---------------------|--------|--------|
|         | Aquatic toxicity           | Dose           | [h]   [d] | Species             | Source | Method |
| 75-05-8 | acetonitrile; cyanomethane |                |           |                     |        |        |
|         | Acute fish toxicity        | LC50 1640 mg/l | 96 h      | Pimephales promelas | IUCLID |        |

**12.3. Bioaccumulative potential**

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**Partition coefficient n-octanol/water**

| CAS No  | Chemical name              | Log Pow |
|---------|----------------------------|---------|
| 75-05-8 | acetonitrile; cyanomethane | -0,34   |

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

This substance does not meet the PBT/vPvB criteria of UK REACH.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | II           |
| Hazard label:                            | 3            |
| Classification code:                     | F1           |
| Limited quantity:                        | 1 L          |
| Excepted quantity:                       | E2           |
| Transport category:                      | 2            |
| Hazard No:                               | 33           |
| Tunnel restriction code:                 | D/E          |

**Inland waterways transport (ADN)**

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | II           |
| Hazard label:                            | 3            |
| Classification code:                     | F1           |
| Limited quantity:                        | 1 L          |
| Excepted quantity:                       | E2           |

**Marine transport (IMDG)**

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | II           |
| Hazard label:                            | 3            |
| Special Provisions:                      | -            |
| Limited quantity:                        | 1 L          |
| Excepted quantity:                       | E2           |
| EmS:                                     | F-E, S-D     |

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**Air transport (ICAO-TI/IATA-DGR)**

|  |              |      |
|--|--------------|------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |      |
| <b>14.3. Transport hazard class(es):</b> | 3            |      |
| <b>14.4. Packing group:</b>              | II           |      |
| Hazard label:                            | 3            |      |
| Limited quantity Passenger:              | 1 L          |      |
| Passenger LQ:                            | Y341         |      |
| Excepted quantity:                       | E2           |      |
| IATA-packing instructions - Passenger:   |              | 353  |
| IATA-max. quantity - Passenger:          |              | 5 L  |
| IATA-packing instructions - Cargo:       |              | 364  |
| IATA-max. quantity - Cargo:              |              | 60 L |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2004/42/EC (VOC): 100 % (786 g/l)

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

|      |                                     |
|------|-------------------------------------|
| 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.                 |