

Safety Data Sheet

according to UK REACH Regulation

Acetonitrile

Revision date: 09.11.2022

Product code: PEDP-0062-B2

Page 2 of 6

P280 smoking.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

SECTION 3: Composition/information on ingredients**3.1. Substances**Sum formula: C₂H₃N**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 (CO₂). 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

Safety Data Sheet

according to UK REACH Regulation

Acetonitrile

Revision date: 09.11.2022

Product code: PEDP-0062-B2

Page 3 of 6

6.1. Personal precautions, protective equipment and emergency procedures**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 ³ | 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

Safety Data Sheet

according to UK REACH Regulation

Acetonitrile

Revision date: 09.11.2022

Product code: PEDP-0062-B2

Page 4 of 6

Odour: Ether

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:
(at 25 °C) 0.316 mPa·sWater solubility:
(at 20 °C) easily soluble.Vapour pressure:
(at 20 °C) 97 hPaDensity (at 20 °C): 0,786 g/cm³**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.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

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 | |

Safety Data Sheet

according to UK REACH Regulation

Acetonitrile

Revision date: 09.11.2022

Product code: PEDP-0062-B2

Page 5 of 6

12.3. Bioaccumulative potential**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. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

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)**

| | |
|--|--------------|
| 14.1. UN number or ID number: | UN 1648 |
| 14.2. UN proper shipping name: | ACETONITRILE |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |

Inland waterways transport (ADN)

| | |
|--|--------------|
| 14.1. UN number or ID number: | UN 1648 |
| 14.2. UN proper shipping name: | ACETONITRILE |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |

Marine transport (IMDG)

| | |
|--|--------------|
| 14.1. UN number or ID number: | UN 1648 |
| 14.2. UN proper shipping name: | ACETONITRILE |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|--------------|
| 14.1. UN number or ID number: | UN 1648 |
| 14.2. UN proper shipping name: | ACETONITRILE |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |

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

Safety Data Sheet

according to UK REACH Regulation

Acetonitrile

Revision date: 09.11.2022

Product code: PEDP-0062-B2

Page 6 of 6

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. |
| H320 | Causes eye irritation. |
| H332 | Harmful if inhaled. |