

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Acetonitrile-d3

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

| | |
|---------------------|-----------------|
| Product name | Acetonitrile-d3 |
| CAS-No. | 2206-26-0 |
| Product code | None. |

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

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|-------------------------------------|------------------------------|
| Use of the Substance/Mixture | Solvent for NMR spectroscopy |
|-------------------------------------|------------------------------|

1.3. Details of the supplier of the safety data sheet

| | |
|---|--|
| Company/Undertaking Identification | Zeochem AG, www.zeochem.ch Joweid 5, 8630 Rüti, Schweiz Tel.: +41 44 922 93 93 E-Mail: info@zeochem.ch |
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|--|--|
| 1.4. Emergency telephone number | Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d] |
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| Issuing date | 05.10.2018 |
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| Version | GHS 4 (Previous versions: GHS 3) |
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Acute toxicity, inhal., Vapours, Cat. 4, H332
Acute toxicity, dermal, Cat. 4, H312
Acute toxicity, oral, Cat. 4, H302
Serious eye damage/eye irritation, Cat. 2, H319
Flammable liquids, Cat. 2, H225

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word

Danger

Hazard Statements

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

P210b: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground and bond container and receiving equipment.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
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.
P370+P378: In case of fire: Use carbon dioxide (co2) for extinction.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/ container to an approved waste disposal plant.

Supplemental information

None.

Product identifier

Acetonitrile-d3, CAS-No. 2206-26-0

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

| Components | | Product identifier |
|-----------------|--|--------------------|
| Acetonitrile-d3 | | CAS-No.: 2206-26-0 |

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities

None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
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| Inhalation | Move to fresh air. Consult a physician after significant exposure. |
| Skin contact | Wash with water and soap as a precaution. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist. |
| Ingestion | If conscious, drink plenty of water. Consult a physician if necessary. |

4.2. Most important symptoms and effects, both acute and delayed None known.

4.3. Indication of any immediate medical attention and special treatment needed None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons High volume water jet.

5.2. Special hazards arising from the substance or mixture Solvents may produce excessive pressure under fire-conditions. Sealed containers may rupture and ignite. Cool containers / tanks with water spray. Burning produces irritant fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters Standard procedure for chemical fires.

Specific methods Do not use a solid water stream as it may scatter and spread fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel Remove all sources of ignition. Pay attention to flashback.

Advice for emergency responders Handle in accordance with good industrial hygiene and safety practice.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Clean up promptly by sweeping or vacuum. After cleaning, flush away traces with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

7.2. Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) Exposure limit(s): 20 ppm.

8.2. Exposure controls

Appropriate engineering controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Gloves made of Butyl. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

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| <i>Eye protection</i> | Safety glasses with side-shields conforming to EN166. |
| <i>Skin and body protection</i> | Wear as appropriate: Solvent-resistant apron and boots. |
| <i>Thermal hazards</i> | No special measures required. |
| Environmental exposure controls | No special measures required. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|---|---------------------|
| Appearance | Liquid. |
| Colour | Colourless. |
| Odour | Acetone-like. |
| Odour Threshold | Not determined. |
| pH: | Not determined. |
| Melting point/range: | -45°C |
| Boiling point/range: | 82°C |
| Flash point: | 2°C |
| Evaporation Rate: | Not determined. |
| Flammability: | Not determined. |
| Explosion limits: | 17% / 3% |
| Vapour pressure: | 93.6 mbar/20°C |
| Vapor density: | 1.42 |
| Relative density: | 0.84 g/ml |
| Water solubility: | completely miscible |
| Partition coefficient (n-octanol/water): | -0.34 |
| Autoignition temperature: | 525°C |
| Decomposition temperature: | Not determined. |
| Viscosity: | 0.316 mPa*s/25°C |
| Explosive properties: | liquid, flammable |
| Oxidising properties: | None |

9.2. Other information

| | |
|--|---------------------------|
| General Product Characteristics | No information available. |
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SECTION 10: Stability and reactivity

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| 10.1. Reactivity | No information available. |
| 10.2. Chemical stability | No decomposition if used as directed. |
| 10.3. Possibility of hazardous reactions | No information available. |
| 10.4. Conditions to avoid | Extremes of temperature and direct sunlight. Take precautionary measures against static discharges. |
| 10.5. Incompatible materials | Incompatible with strong bases and oxidizing agents. |

10.6. Hazardous decomposition products None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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|---|---|
| Acute toxicity | LC50/inhalation/1h/rat = 20 mg/l. LD50/oral/rat = 2460 mg/kg. LD50/dermal/rabbit = 2000 mg/kg. |
| Skin corrosion/irritation | Mild skin irritation. |
| Serious eye damage/eye irritation | Severe eye irritation. |
| Respiratory / Skin Sensitisation | None. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Classification not possible from current data. |
| Reproductive toxicity | Classification not possible from current data. |
| Specific target organ toxicity (single exposure) | No data available. |
| Specific target organ toxicity (repeated exposure) | No data available. |
| Aspiration hazard | No data available. |
| Human experience | No data available. |
| Delayed and immediate effects and also chronic effects from short and long term exposure | Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |

SECTION 12: Ecological information

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| 12.1. Toxicity | LC50/96h/fish = 1640 mg/l. EC50/48h/daphnia = 1000 mg/l. |
| 12.2. Persistence and degradability | Readily biodegradable. |
| 12.3. Bioaccumulative potential | Does not bioaccumulate. |
| 12.4. Mobility in soil | No data available. |
| 12.5. Results of PBT and vPvB assessment | This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). |
| 12.6. Other adverse effects | No information available. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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| Waste from residues / unused products | Can be incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal or incineration. |
| Contaminated packaging | No information available. |

SECTION 14: Transport information

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|------------------------------|---|
| ADR/RID | UN 1648. Proper shipping name: ACETONITRILE. Class 3. Packing group II. ADR/RID-Labels 3. Classification code F1. Hazard identification no. 33. Limited quantity 1 L. Excepted quantity E2. Tunnel restriction code D/E |
| IMDG | UN 1648. Proper shipping name: ACETONITRILE. Class 3. Packing group II. IMDG-Labels 3. Limited quantity 1 L. Excepted quantity E2. EmS F-E, S-D. Marine pollutant: No. |
| IATA | UN 1648. Proper shipping name: Acetonitrile. Class 3. Packing group II. IATA label 3. Packing instruction (passenger aircraft): 353 (5 L). Packing instruction (LQ): Y341 (1 L). Packing instruction (cargo aircraft): 364 (60 L). |
| Inland navigation ADN | UN 1648. Proper shipping name: ACETONITRILE. Class 3. Packing group II. ADN labels 3. Classification code F1. Limited quantity 1 L. Excepted quantity E2. |
| Further Information | None. |

SECTION 15: Regulatory information

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

Regulatory Information The product is classified and labelled according to Regulation (EC) No. 1272/2008.

15.2. Chemical safety assessment Not required.

SECTION 16: Other information

Key or legend to abbreviations and acronyms CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)

Full text of phrases referred to under sections 2 and 3 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.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.