

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Eluent Solution

Print date: 17.01.2020

Product code: K-62XTM-ES

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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

1.3. Details of the supplier of the safety data sheet

| | | |
|---------------|---|---------------------------|
| Company name: | ABX advanced biochemical compounds | |
| | Biomedizinische Forschungsreagenzien GmbH | |
| Street: | Heinrich-Glaeser-Strasse 10-14 | |
| Place: | D-01454 Radeberg | |
| Telephone: | +49 3528 4041 60 | Telefax: +49 3528 4041 65 |
| e-mail: | info@abx.de | |
| Internet: | http://www.abx.de | |

1.4. Emergency telephone number:

+49 3528 4041 60

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful, Xi - Irritant

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

Hazard categories:
Acute toxicity: Acute Tox. 4
Serious eye damage/eye irritation: Eye Irrit. 2
Hazard Statements:
Highly flammable liquid and vapour.
Harmful if swallowed.
Causes serious eye irritation.

2.2. Label elements

| | |
|--------------|-------------|
| Signal word: | Danger |
| Pictograms: | GHS02-GHS07 |



Hazard components for labelling

acetonitrile; cyanomethane

Hazard statements

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |

Precautionary statements

| | |
|----------------|--|
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. |
| P330 | Rinse mouth. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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P337+P313

If eye irritation persists: Get medical advice/attention.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

| EC No | Chemical name | Quantity |
|--------------|--|-------------|
| CAS No | Classification according to Directive 67/548/EEC | |
| Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| REACH No | | |
| 200-835-2 | acetonitrile; cyanomethane | 40 - < 45 % |
| 75-05-8 | F - Highly flammable, Xn - Harmful, Xi - Irritant R11-20/21/22-36 | |
| 608-001-00-3 | Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H225 H332 H312 H302 H319 | |
| 245-962-4 | Cryptand 222 | 1 - < 5 % |
| 23978-09-8 | Xn - Harmful, Xi - Irritant R22-37/38-41 | |
| | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318 | |

Full text of R, H and EUH phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Let water be drunken in little sips (dilution effect). Call a physician in any case!

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Wear personal protection equipment.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

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

Physical state: liquid
Colour: colourless

Test method**Changes in the physical state**

Water solubility: easily soluble.

SECTION 10: Stability and reactivity**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

| CAS No | Chemical name | Exposure route | Method | Dose | Species | h |
|------------|----------------------------|---------------------------|--------|-----------|---------|---|
| 75-05-8 | acetonitrile; cyanomethane | Acute oral toxicity | ATE | 500 mg/kg | | |
| | | Acute dermal toxicity | LD50 | 988 mg/kg | Rabbit | |
| | | Acute inhalation toxicity | LC50 | 11 mg/l | | |
| 23978-09-8 | Cryptand 222 | Acute oral toxicity | ATE | 500 mg/kg | | |

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

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

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12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

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

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Remove according to the regulations.

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: | 1648 |
| 14.2. UN proper shipping name: | ACETONITRILE, mixture |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 1 L |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|-----------------------|
| 14.1. UN number: | 1648 |
| 14.2. UN proper shipping name: | ACETONITRILE, mixture |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 1 L |

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

| | |
|----------------------|------|
| UN/ID number: | 1648 |
|----------------------|------|

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14.2. UN proper shipping name: ACETONITRILE, mixture**14.3. Transport hazard class(es):** 3**14.4. Packing group:** II

Hazard label: 3

Limited quantity Passenger: 1 L

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****National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other information**Relevant R phrases (number and full text)**

- 11 Highly flammable.
- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 37/38 Irritating to respiratory system and skin.
- 41 Risk of serious damage to eyes.

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.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)