

**Safety Data Sheet**

according to UK REACH Regulation

**Water/Ethanol 10/1**

Revision date: 01.11.2022

Product code: PE-SC-10-R-S1

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

Water/Ethanol 10/1

**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<br>Biomedizinische Forschungsreagenzien GmbH |                               |
| Street:         | Heinrich-Gläser-Straße 10-14  |                               |
| Place:          | 01454 Radeberg  |                               |
| Telephone:      | +49 3528 4041 60  | Telefax: +49 3528 4041 65     |
| e-mail:         | info@abx.de   |                               |
| Contact person: | Dr. Christoph Meyer   | Telephone: +49 3528 4041 8732 |
| e-mail:         | meyer@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****GB CLP Regulation**

Flam. Liq. 3; H226

Full text of hazard statements: see SECTION 16.

This preparation does not contain harmful substances and/or substances hazardous to the environment in accordance with the substance directive 67/548/EC or substances to which occupational exposure limit values are allocated.

**2.2. Label elements****GB CLP Regulation****Signal word:** Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.

**Precautionary statements**

|                |  |
|----------------|--|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         |
| P233           | Keep container tightly closed.   |
| P240           | Ground and bond container and receiving equipment.   |
| P241           | Use explosion-proof electrical/ventilating/lighting equipment.   |
| P242           | Use non-sparking tools.  |
| P243           | Take action to prevent static discharges.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.          |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P403+P235      | Store in a well-ventilated place. Keep cool.   |

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

| CAS No  | Chemical name                      |              |          | Quantity   |
|---------|------------------------------------|--------------|----------|------------|
|         | EC No                              | Index No     | REACH No |            |
|         | Classification (GB CLP Regulation) |              |          |            |
| 64-17-5 | ethanol; ethyl alcohol             |              |          | 5 - < 10 % |
|         | 200-578-6                          | 603-002-00-5 |          |            |
|         | Flam. Liq. 2; H225                 |              |          |            |

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                        |                        |            |
| 64-17-5 | 200-578-6   | ethanol; ethyl alcohol | 5 - < 10 % |
|         | inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg |                        |            |

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

Provide fresh air.

**After contact with skin**

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

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

If swallowed, immediately drink: Water.

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

Co-ordinate fire-fighting measures to the fire surroundings.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

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****General advice**

Provide adequate ventilation.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

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**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 general occupational hygiene**

Change contaminated clothing. Wash hands before breaks and after work. 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.

**Further information on storage conditions**

Maximum storage temperature: +30 °C

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 |
|---------|-----------|------|-------------------|-----------|-----------|--------|
| 64-17-5 | Ethanol   | 1000 | 1920              |           | TWA (8 h) | 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

**Changes in the physical state**

Flash point: 57 °C  
Water solubility: easily soluble.

**SECTION 10: Stability and reactivity****SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation**

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**Acute toxicity**

| CAS No  | Chemical name           |               |           |        |        |  |
|---------|-------------------------|---------------|-----------|--------|--------|--|
|         | Exposure route          | Dose          | Species   | Source | Method |  |
| 64-17-5 | ethanol; ethyl alcohol  |               |           |        |        |  |
|         | oral                    | LD50<br>mg/kg | 6200      | Rat    | IUCLID |  |
|         | inhalation (4 h) vapour | LC50          | 95,6 mg/l | Rat    | RTECS  |  |

**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 |
| 64-17-5 | ethanol; ethyl alcohol   |              |                 |         |               |        |
|         | Acute crustacea toxicity | EC50<br>mg/l | 9268 -<br>14221 | 48 h    | Daphnia magna | IUCLID |

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

| CAS No  | Chemical name          | Log Pow |
|---------|------------------------|---------|
| 64-17-5 | ethanol; ethyl alcohol | -0,31   |

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Further information**

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**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled.

**SECTION 14: Transport information****Other applicable information**

Not a hazardous material with respect to transportation regulations.

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

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**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information****Classification for mixtures and used evaluation method according to GB CLP Regulation**

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 3; H226 | On basis of test data    |

**Relevant H and EUH statements (number and full text)**

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.

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