

**Safety Data Sheet**

according to UK REACH Regulation

**50% Ethanol solution**

Revision date: 25.11.2022

Product code: PEGA-0089-2-V3

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

50% Ethanol solution

**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

none (according to UK REACH Regulation)

### 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

##### 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.

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**Further information on storage conditions**

Storage at below °C: +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: >24 °C  
 Water solubility: easily soluble.

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

Light.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****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****12.5. 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**

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**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****Land transport (ADR/RID)**

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1170           |
| <b>14.2. UN proper shipping name:</b>    | Ethanol, solution |
| <b>14.3. Transport hazard class(es):</b> | 3                 |
| <b>14.4. Packing group:</b>              | III               |
| Hazard label:                            | 3                 |

**Inland waterways transport (ADN)**

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1170           |
| <b>14.2. UN proper shipping name:</b>    | Ethanol, solution |
| <b>14.3. Transport hazard class(es):</b> | 3                 |
| <b>14.4. Packing group:</b>              | III               |
| Hazard label:                            | 3                 |

**Marine transport (IMDG)**

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1170           |
| <b>14.2. UN proper shipping name:</b>    | Ethanol, Solution |
| <b>14.3. Transport hazard class(es):</b> | 3                 |
| <b>14.4. Packing group:</b>              | III               |
| Hazard label:                            | 3                 |

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

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1170           |
| <b>14.2. UN proper shipping name:</b>    | Ethanol, solution |
| <b>14.3. Transport hazard class(es):</b> | 3                 |
| <b>14.4. Packing group:</b>              | III               |
| Hazard label:                            | 3                 |

**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

**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)**

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.)*