

# Safety Data Sheet

according to UK REACH Regulation

Revision date: 20.12.2023

**Hydrogen peroxide 3 %**

Product code: PEKR-0128-R-V3

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

Hydrogen peroxide 3 %

Substance name: Hydrogen peroxide 3 %  
 CAS No: 7722-84-1  
 Index No: 008-003-00-9  
 EC No: 231-765-0

**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-Gläser-Straße 10-14  
 Place: 01454 Radeberg  
 Telephone: +49 3528 4041 60  
 e-mail: info@abx.de  
 Contact person: Dr. Christoph Meyer  
 e-mail: meyer@abx.de  
 Internet: http://www.abx.de  
 Telefax: +49 3528 4041 65  
 Telephone: +49 3528 4041 8732

**1.4. Emergency telephone number:**

+49 3528 4041 60

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements****GB CLP Regulation****Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Hydrogen peroxide 3%

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7722-84-1	hydrogen peroxide solution ... %			1 - < 5 %
	231-765-0	008-003-00-9		
	Ox. Liq. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H271 H332 H302 H314			

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
7722-84-1	231-765-0	hydrogen peroxide solution ... %	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 3000 mg/kg; oral: LD50 = 418 - 445 mg/kg Ox. Liq. 1; H271: >= 70 - 100 Ox. Liq. 2; H272: >= 50 - < 70 Skin Corr. 1A; H314: >= 70 - 100 Skin Corr. 1B; H314: >= 50 - < 70 Skin Irrit. 2; H315: >= 35 - < 50 Eye Dam. 1; H318: >= 8 - < 50 Eye Irrit. 2; H319: >= 5 - < 8 STOT SE 3; H335: >= 35 - 100	

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

- Do not leave affected person unattended.
- Remove victim out of the danger area.
- Put victim at rest, cover with a blanket and keep warm.
- If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

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

**After contact with eyes**

- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

- No known symptoms to date.

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

- Atomized water., BC-powder, Carbon dioxide (CO2)

**Unsuitable extinguishing media**

- Full water jet

**5.2. Special hazards arising from the substance or mixture**

- Explosion hazard with: Take any precaution to avoid mixing with combustibles ., oxidising

**5.3. Advice for firefighters**

- In case of fire and/or explosion do not breathe fumes., Co-ordinate fire-fighting measures to the fire surroundings., Do not allow run-off from fire-fighting to enter drains or water courses., Contaminated fire-fighting water must be collected separately., Fight fire with normal precautions from a reasonable distance.

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

- Remove persons to safety.

**For emergency responders**

- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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**6.2. Environmental precautions**

Do not empty into drains.

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

Cover drains.

**For cleaning up**

Collect spillage., Take up mechanically, placing in appropriate containers for 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., If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means., Take any precaution to avoid mixing with combustibles .

Keep away from: Cellulose Paper

**Advice on general occupational hygiene**

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep valves and fittings free from oil and grease., Keep away from clothing and other combustible materials., Take any precaution to avoid mixing with combustibles ., Provide adequate ventilation as well as local exhaustion at critical locations., Container should not be closed gas-tight., Keep only in original packaging.

**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
7722-84-1	Hydrogen peroxide	1	1.4		TWA (8 h)	WEL
		2	2.8		STEL (15 min)	WEL

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves., Check leak tightness/impermeability prior to use.,In the case of wanting to use the gloves again, clean them before taking off and air them well., For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

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

Physical state:	liquid	
Colour:	colourless	
Odour:	odourless	
Boiling point or initial boiling point and boiling range:		100 °C

**SECTION 10: Stability and reactivity****10.1. Reactivity**

oxidising

**10.5. Incompatible materials**

Combustible substance

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

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

Based on available data, the classification criteria are not met.

Harmful if swallowed, in contact with skin or if inhaled., May be harmful in contact with skin.

**ATEmix calculated**

ATE (oral) 13933,3 mg/kg; ATE (inhalation vapour) 366,67 mg/l; ATE (inhalation dust/mist) 50,000 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7722-84-1	hydrogen peroxide solution ... %				
	oral	LD50 mg/kg	418 - 445	Rat	
	dermal	LD50 mg/kg	3000	Rat	GESTIS
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

Causes severe skin burns and eye damage.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

May cause respiratory irritation.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7722-84-1	hydrogen peroxide solution ... %					
	Acute fish toxicity	LC50 mg/l	16,4	96 h	Pimephales promelas	IUCLID
	Acute algae toxicity	ErC50 mg/l	0,88	72 h	Chlorella vulgaris	

**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.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of contents/container to an appropriate recycling or disposal facility., Do not allow to enter into surface water or drains., Do not allow uncontrolled discharge of product into the environment., Avoid release to the environment., Hazardous waste according to Directive 2008/98/EC (waste framework directive)., Completely emptied packages can be recycled., Handle contaminated packages in the same way as the substance itself., Remove according to the regulations.

**SECTION 14: Transport information**

Segregation group: 16 - peroxides

**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

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

Water hazard class (D): - - non-hazardous to water

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

H271 May cause fire or explosion; strong oxidiser.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.  
EUH210 Safety data sheet available on request.

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