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SA	FETY DATA SHEET	according to Regulation (EC) No. 1907/2006
Нус	drogen peroxide so	olution >0.1 - <5%
Vers	sion 1.0	Print Date 2018/10/02
Rev	ision date / valid from 201	8/10/02
SEC	TION 1: Identification of	the substance/mixture and of the company/undertaking
1.1.	Product identifier	
	Trade name Substance name Index-No. CAS-No. EC-No. EU REACH-Reg. No.	<ul> <li>Hydrogen peroxide solution &gt;0.1 - &lt;5%</li> <li>hydrogen peroxide solution</li> <li>008-003-00-9</li> <li>7722-84-1</li> <li>231-765-0</li> <li>01-2119485845-22-xxxx</li> </ul>
1.2.	Relevant identified uses	of the substance or mixture and uses advised against
	Use of the Substance/Mixture	: industrial use
	Uses advised against	: At this moment we have not identified any uses advised against
1.3.	Details of the supplier of	the safety data sheet
	Company Telephone Telefax E-mail address	<ul> <li>Brenntag UK Limited Alpha House, Lawnswood Business Park GB LS16 6QY Leeds</li> <li>+44 (0) 113 3879 200</li> <li>+44 (0) 113 3879 280</li> <li>msds@brenntag.co.uk</li> </ul>
1.4.	Emergency telephone nu	
	Emergency telephone number	
SEC	TION 2: Hazards identif	cation
2.1.	Classification of the sub	stance or mixture
	Classification according	to Regulation (EC) No 1272/2008
	The product is not classif	ied as dangerous according to Regulation (EC) No. 1272/2008.
	Most important adverse	effects
	Human Health	: See section 11 for toxicological information.



Physical and chemical:See section 9/10 for physicochemical information.hazardsPotential environmental:See section 12 for environmental information.effects

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

#### Additional Labelling:

Handle in accordance with good industrial hygiene and safety practice. EUH210 Safety data sheet available on request.

#### 2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Chemical nature

: Aqueous solution

				fication EC) No 1272/2008)
Haza	rdous components	Amount [%]	Hazard class / Hazard category	Hazard statements
hydrogen per	oxide solution			
Index-No. CAS-No. EC-No. EU REACH- Reg. No.	: 008-003-00-9 : 7722-84-1 : 231-765-0 : 01-2119485845-22-xxxx	>= 0.1 - < 5	Ox. Liq.1 Acute Tox.4 Acute Tox.4 Skin Corr.1A Eye Dam.1 STOT SE3 Aquatic Chronic3	H271 H332 H302 H314 H318 H335 H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately. If symptoms call a physician.	
If inhaled	: Remove to fresh air. If symptoms persist, call a physician.	
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	In case of skin contact	: Wash off with soap and water. If skin irritation persists, call a
		physician.
	In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
	If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
.2.	Most important symptoms	s and effects, both acute and delayed
	Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
	Effects	: Health injuries are not known or expected under normal use. See Section 11 for more detailed information on health effects and symptoms.
4.3.	Indication of any immedia	te medical attention and special treatment needed
	Treatment	: Treat symptomatically.
5.1.	Extinguishing media	
5.1.	Extinguishing media Suitable extinguishing media Unsuitable extinguishing	: water spray : High volume water jet
	Suitable extinguishing media Unsuitable extinguishing media	: High volume water jet
5.1. 5.2.	Suitable extinguishing media Unsuitable extinguishing media	
	Suitable extinguishing media Unsuitable extinguishing media	: High volume water jet
	Suitable extinguishing media Unsuitable extinguishing media <b>Special hazards arising fre</b> Specific hazards during	<ul> <li>High volume water jet</li> <li>om the substance or mixture</li> <li>The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the</li> </ul>
5.2.	Suitable extinguishing media Unsuitable extinguishing media <b>Special hazards arising fre</b> Specific hazards during firefighting	<ul> <li>High volume water jet</li> <li>om the substance or mixture</li> <li>The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the</li> </ul>



	Personal precautions	<ul> <li>Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.</li> </ul>
6.2.	Environmental precaution	S
	Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.
6.3.	Methods and materials for	containment and cleaning up
	Methods and materials for containment and cleaning up	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal. Do not keep the container sealed.
	Further information	: Treat recovered material as described in the section "Disposal considerations".
6.4.	Reference to other section	IS
	See Section 1 for emergen See Section 8 for informati See Section 13 for waste tr	on on personal protective equipment.
SEC	TION 7: Handling and sto	r200
	Thom 7. Thanking and Sto	
7 4	Processions for cofe hand	•
7.1.	Precautions for safe hand	ling
7.1.	Precautions for safe handl Advice on safe handling	•
7.1.		<ul> <li>Iing</li> <li>Keep container firmly closed but do not keep it gas-tight. To this a packaging with ventilation cap is to be used. Ensure adequate ventilation. Handle in accordance with good industrial hygiene</li> </ul>
7.1.	Advice on safe handling Hygiene measures	<ul> <li>Iing</li> <li>Keep container firmly closed but do not keep it gas-tight. To this a packaging with ventilation cap is to be used. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.</li> <li>Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off</li> </ul>
	Advice on safe handling Hygiene measures	<ul> <li>Iing</li> <li>Keep container firmly closed but do not keep it gas-tight. To this a packaging with ventilation cap is to be used. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.</li> <li>Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.</li> </ul>
	Advice on safe handling Hygiene measures Conditions for safe storag Requirements for storage	<ul> <li>Iing</li> <li>Keep container firmly closed but do not keep it gas-tight. To this a packaging with ventilation cap is to be used. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.</li> <li>Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.</li> <li>e, including any incompatibilities</li> </ul>
	Advice on safe handling Hygiene measures <b>Conditions for safe storag</b> Requirements for storage areas and containers Advice on protection	<ul> <li>Iing</li> <li>Keep container firmly closed but do not keep it gas-tight. To this a packaging with ventilation cap is to be used. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.</li> <li>Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.</li> <li>e, including any incompatibilities</li> <li>Store in original container. Keep away from direct sunlight.</li> </ul>
	Advice on safe handling Hygiene measures <b>Conditions for safe storag</b> Requirements for storage areas and containers Advice on protection against fire and explosion Further information on	<ul> <li>Iing</li> <li>Keep container firmly closed but do not keep it gas-tight. To this a packaging with ventilation cap is to be used. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.</li> <li>Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.</li> <li>e, including any incompatibilities</li> <li>Store in original container. Keep away from direct sunlight.</li> <li>The product is not flammable. Normal measures for preventive fire protection.</li> <li>Do not keep the container sealed. Keep in a dry place. Store in</li> </ul>
	Advice on safe handling Hygiene measures Conditions for safe storage Requirements for storage areas and containers Advice on protection against fire and explosion Further information on storage conditions Advice on common	<ul> <li>Iing</li> <li>Keep container firmly closed but do not keep it gas-tight. To this a packaging with ventilation cap is to be used. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.</li> <li>Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.</li> <li>e, including any incompatibilities</li> <li>Store in original container. Keep away from direct sunlight.</li> <li>The product is not flammable. Normal measures for preventive fire protection.</li> <li>Do not keep the container sealed. Keep in a dry place. Store in cool place.</li> <li>Keep away from food, drink and animal feedingstuffs. Keep</li> </ul>



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Нус	drogen peroxide so	olution >0.1 - <5%		
	Suitable packaging materials	: Stainless steel, PTFE, p	olyethyle	ne
	Unsuitable packaging materials	:, Copper, Aluminium, Zir	nc, Iron	
7.3.	Specific end use(s)			
	Specific use(s)	: No information available		
8.1.	Control parameters			
	O a man a mante			040 No. 7700 04 4
<b>.</b>		hydrogen peroxide solution ect Level (DNEL)/Derived Min	nimal Effe	CAS-No. 7722-84-1 ect Level (DMEL)
		ect Level (DNEL)/Derived Min	nimal Effe	
Ī	Derived No Effe	ect Level (DNEL)/Derived Min	nimal Eff :	ect Level (DMEL)
	Derived No Effe DNEL Workers, Acute - local ef DNEL	ect Level (DNEL)/Derived Min fects, Inhalation	:	ect Level (DMEL) 3 mg/m3
	Derived No Effe DNEL Workers, Acute - local ef DNEL Workers, Long-term - loc	ect Level (DNEL)/Derived Min fects, Inhalation cal effects, Inhalation	:	ect Level (DMEL) 3 mg/m3 1.4 mg/m3
	Derived No Effe DNEL Workers, Acute - local ef DNEL Workers, Long-term - loc DNEL Consumers, Acute - loca DNEL Consumers, Long-term -	ect Level (DNEL)/Derived Min fects, Inhalation cal effects, Inhalation	:	ect Level (DMEL) 3 mg/m3 1.4 mg/m3 1.93 mg/m3 0.21 mg/m3
	Derived No Effe DNEL Workers, Acute - local ef DNEL Workers, Long-term - loc DNEL Consumers, Acute - loca DNEL Consumers, Long-term -	ect Level (DNEL)/Derived Min fects, Inhalation cal effects, Inhalation I effects, Inhalation local effects, Inhalation	:	ect Level (DMEL) 3 mg/m3 1.4 mg/m3 1.93 mg/m3 0.21 mg/m3
	Derived No Effe DNEL Workers, Acute - local ef DNEL Workers, Long-term - loc DNEL Consumers, Acute - loca DNEL Consumers, Long-term -	ect Level (DNEL)/Derived Min fects, Inhalation cal effects, Inhalation I effects, Inhalation local effects, Inhalation	:	ect Level (DMEL) 3 mg/m3 1.4 mg/m3 1.93 mg/m3 0.21 mg/m3 EC)

- Sewage treatment plant (STP)
- Fresh water sediment
- Marine sediment
- Soil

: 4.66 mg/l

(d.w.)

: 0.047 mg/kg dry weight (d.w.)

: 0.047 mg/kg dry weight

: 0.0023 mg/kg dry weight (d.w.)



	(	Other Occupational Exposure Limit Values	
	UK. EH40 Workplace E 2 ppm, 2.8 mg/m3	Exposure Limits (WELs), Short Term Exposure Limit (STEL):	
	UK. EH40 Workplace E 1 ppm, 1.4 mg/m3	Exposure Limits (WELs), Time Weighted Average (TWA):	
	ELV (IE), Time Weight 1 ppm, 1.5 mg/m3	ed Average (TWA):	
	ELV (IE), Short Term E 2 ppm, 3 mg/m3	Exposure Limit (STEL):	
8.2. E	xposure controls		
A	ppropriate engineerir	ng controls	
R	efer to protective meas	sures listed in sections 7 and 8.	
P	ersonal protective eq	uipment	
	Respiratory protection		
	Advice	: Required, if exposure limit is exceeded (e.g. OEL). Respiratory protection complying with EN 141. Recommended Filter type: Combination filter:B-P2	
	Hand protection		
	Advice	<ul> <li>Protective gloves complying with EN 374.</li> <li>Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.</li> <li>Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.</li> <li>Protective gloves should be replaced at first signs of wear.</li> </ul>	
	Material Break through time Glove thickness	<ul> <li>Natural Rubber</li> <li>&gt;= 8 h</li> <li>0.5 mm</li> </ul>	
	Material Break through time Glove thickness	<ul> <li>polychloroprene</li> <li>&gt;= 8 h</li> <li>0.5 mm</li> </ul>	
	Material Break through time Glove thickness	<ul> <li>Nitrile rubber</li> <li>&gt;= 8 h</li> <li>0.35 mm</li> </ul>	
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Material Break through time Glove thickness	butyl-rubber >= 8 h 0.5 mm	
Material Break through time Glove thickness	Fluorinated rubber >= 8 h 0.4 mm	
Material Break through time Glove thickness	Polyvinylchloride >= 8 h 0.5 mm	
Eye protection		
Advice	Goggles giving con	plete protection to the eyes
Skin and body proted		
Advice	Protective work clo	thing
Environmental expos	ontrols	
General advice	Avoid subsoil pene If the product conta respective authoriti	minates rivers and lakes or drains inform

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Form	:	liquid	
Colour	:	colourless	
Odour	:	odourless	
Odour Threshold	:	Not applicable	
рН	:	2 - 3 ( 20 °C)	
Freezing point/range	:	ca. 0 °C	
Boiling point/boiling range	:	ca. 100 °C	
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Flash point		:	Not applicable	
Evaporation rate		:	Not applicable	
Flammability (solid, gas)		:	Not applicable	
Upper explosion limit		:	Not applicable	
Lower explosion limit		:	Not applicable	
Vapour pressure		:	no data available	
Relative vapour density		:	no data available	
Density		:	1.003 g/cm3 (20 °C) 1% solution 1.017 g/cm3 (20 °C) 5% solution	
Water solubility		:	completely miscible	
Partition coefficient: n-oct	anol/water	:	log Kow -1.57 (20 °C) (calculated)	
Auto-ignition temperature		:	Not applicable	
Thermal decomposition		:	no data available	
Viscosity, dynamic		:	no data available	
Explosivity		:	Product is not explosive.	
Oxidizing properties		:	Oxidizing agents	
9.2. Other information				
Molecular weight		:	34.01 g/mol	
SECTION 10: Stability and re	activity			
10.1. Reactivity				
Advice	: No deco	om	position if stored and applied as directed.	
10.2. Chemical stability				
Advice	: Stable ι	ind	der recommended storage conditions.	
10.3. Possibility of hazardous i	reactions			
Hazardous reactions			mal conditions of storage and use, hazardous will not occur.	
10.4. Conditions to avoid				
Conditions to avoid			es and sparks.Keep away from direct eneration of gas from decomposition causes	
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			pressure in closed systems	
0.5.	Incompatible materia	als		
	Materials to avoid		: Keep away from combustible material. Organic materials, Keep away from strong oxidizing agents and strong reducing agents.	
0.6.	Hazardous decompo	sitio	n products	
	Hazardous decompo products	sitio	ר : Oxygen	
SEC1	ION 11: Toxicologi	cal i	nformation	
	Information on toxic			
D	ata for the product			
			Acute toxicity	
			Oral	
	Acute toxicity estimate	:	> 2000 mg/kg ) (Calculation method)Not classified based on the calculation method according to CLP regulation.	
			Inhalation	
	Acute toxicity estimate	:	> 5 mg/l (4 h; dust/mist) (Calculation method)Not classified based on the calculation method according to CLP regulation.	
			Dermal	_
	Acute toxicity estimate	:	> 2000 mg/kg ) Not classified based on the calculation method according to CLP regulation.	
			Irritation	
			Skin	
	Result	:	Not classified based on the calculation method according to CLP regulation.	
			Eyes	
	Result	:	Not classified based on the calculation method according to CLP regulation.	
			Sensitisation	
	Result	:	Not classified based on the calculation method according to CLP regulation.	
			CMR effects	
			CMR Properties	_
	Carcinogenicity	:	Not classified based on the calculation method according to CLP regulation.	_
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				_



Mutagenicity	: Not classified based on the calculation method according to CLP
Teratogenicity	regulation. Not classified based on the calculation method according to CLP
relatogenicity	regulation.
Reproductive toxicity	: Not classified based on the calculation method according to CLP regulation.
	Specific Target Organ Toxicity
	Single exposure
Remarks	: Not classified based on the calculation method according to CLP regulation.
	Repeated exposure
Remarks	: Not classified based on the calculation method according to CLP regulation.
	Other toxic properties
	Repeated dose toxicity
	no data available
	Aspiration hazard
	Not applicable,
omponent:	hydrogen peroxide solution CAS-No. 7722-84-
	Acute toxicity
	Acute toxicity Oral
LD50 Oral	Oral : 418 mg/kg (Rat, male) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an
LD50 Oral LD50 Oral	<ul> <li>Oral</li> <li>418 mg/kg (Rat, male) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> <li>445 mg/kg (Rat, female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an analysis of a value for an advect the pure substance was calculated on basis of a value for an advect the pure substance was calculated on basis of a value for an advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure substance was calculated on basis of a value for advect the pure sub</li></ul>
	Oral <ul> <li>418 mg/kg (Rat, male) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> <li>445 mg/kg (Rat, female) (US-EPA method)The toxicological value</li> </ul>
LD50 Oral	<ul> <li>Oral</li> <li>418 mg/kg (Rat, male) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> <li>445 mg/kg (Rat, female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> <li>431 mg/kg (Rat, male and female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> </ul>
LD50 Oral	<ul> <li>Oral</li> <li>418 mg/kg (Rat, male) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> <li>445 mg/kg (Rat, female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> <li>431 mg/kg (Rat, male and female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.</li> </ul>
LD50 Oral	Oral         : 418 mg/kg (Rat, male) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.         : 445 mg/kg (Rat, female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.         : 431 mg/kg (Rat, male and female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.         : 431 mg/kg (Rat, male and female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.         : Malation
LD50 Oral	Oral         • 418 mg/kg (Rat, male) (US-EPA method)The toxicological value for an aqueous solution.         • 445 mg/kg (Rat, female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.         • 431 mg/kg (Rat, male and female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.         • 431 mg/kg (Rat, male and female) (US-EPA method)The toxicological value for the pure substance was calculated on basis of a value for an aqueous solution.         Inhalation         No valid data available.

	Irritation
	Skin
Result	: corrosive effects (Rabbit)
	Eyes
Result	: Causes serious eye damage. (Rabbit)
	Sensitisation
Result	: not sensitizing (Magnusson & Kligman; Guinea pig)
	CMR effects
	CMR Properties
Carcinogenicity Mutagenicity Teratogenicity Reproductive toxicity	<ul> <li>Not classified due to inconclusive data.</li> <li>In vitro tests showed mutagenic effects In vivo tests did not show mutagenic effects</li> <li>no data available</li> <li>Not classified due to lack of data.</li> </ul>
	Genotoxicity in vitro
Result	<ul> <li>positive (Chromosome aberration test in vitro; In vitro gene mutation study in mammalian cells; no) (OECD Test Guideline 473)</li> <li>positive (In vitro gene mutation study in mammalian cells; no) (OECD Test Guideline 476)</li> <li>Positive as well as negative results were obtained. (Mutagenicity (Escherichia coli - reverse mutation assay); with and without metabolic activation)</li> </ul>
	Genotoxicity in vivo
Result	: negative (In vivo micronucleus test; Mouse) (Test substance: Hydrogen peroxide solution (35%); intraperitoneal; ) (OECD Test Guideline 474)
	Specific Target Organ Toxicity
	Single exposure
Inhalation	: Target Organs: Respiratory systemMay cause respiratory irritation
	Repeated exposure

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drogen perox	ide solution >0.1 - <5%
Remarks	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
	Other toxic properties
	Repeated dose toxicity
NOEL	<ul> <li>37 mg/kg</li> <li>(Mouse, female; Test substance: Hydrogen peroxide solution (35%))(Oral; 90 d; Subsequent observation period 6 weeks)</li> <li>(OECD Test Guideline 408)Target Organs: Blood; Symptoms: Depression of body weight, Irritation, Gastrointestinal tract</li> </ul>
NOEL	<ul> <li>26 mg/kg</li> <li>(Mouse, male; Test substance: Hydrogen peroxide solution (35%))(Oral; 90 d; Subsequent observation period 6 weeks)</li> <li>(OECD Test Guideline 408)Target Organs: Blood; Symptoms: Depression of body weight, Irritation, Gastrointestinal tract</li> </ul>
	Aspiration hazard
	No aspiration toxicity classification,
TION 12: Ecologi . Toxicity	ical information
. Toxicity	
·	hydrogen peroxide solution CAS-No. 7722-84-1
. Toxicity	hydrogen peroxide solution CAS-No. 7722-84-1 Acute toxicity
. Toxicity	hydrogen peroxide solution CAS-No. 7722-84-1
. Toxicity	hydrogen peroxide solution CAS-No. 7722-84-1 Acute toxicity
. Toxicity Component:	hydrogen peroxide solution CAS-No. 7722-84-1 Acute toxicity Fish
. Toxicity Component:	hydrogen peroxide solution       CAS-No. 7722-84-1         Acute toxicity       Fish         : 16.4 mg/l (Pimephales promelas; 96 h) (semi-static test)
Component:	hydrogen peroxide solution       CAS-No. 7722-84-1         Acute toxicity       Fish         : 16.4 mg/l (Pimephales promelas; 96 h) (semi-static test)         Toxicity to daphnia and other aquatic invertebrates
Component:	hydrogen peroxide solution       CAS-No. 7722-84-1         Acute toxicity       Fish         Fish       16.4 mg/l (Pimephales promelas; 96 h) (semi-static test)         Toxicity to daphnia and other aquatic invertebrates       East of the static test of the static te
Component: LC50 EC50 NOEC	hydrogen peroxide solution       CAS-No. 7722-84-1         Acute toxicity       CAS-No. 7722-84-1         Acute toxicity       Fish         :       16.4 mg/l (Pimephales promelas; 96 h) (semi-static test)         Toxicity to daphnia and other aquatic invertebrates         :       2.4 mg/l (Daphnia pulex (Water flea); 48 h) (semi-static test)         algae         :       0.63 mg/l (Skeletonema costatum (marine diatom); 72 h) (static test; End point: Growth rate)



	Bacteria
	Busiona
EC50	: > 1000 mg/l (activated sludge; 3 h) (static test; OECD Test
EC50	Guideline 209) 466 mg/l (activated sludge; 30 min) (OECD Test Guideline 20
	Chronic toxicity
	Aquatic invertebrates
NOEC	0.63 mg/l (Daphnia magna (Water flea); 21 d)
Persistence and	degradability
Component:	hydrogen peroxide solution CAS-No. 7722
	Persistence and degradability
	Persistence
Result	: (Related to: Air) The product can be degraded by abiotic (e.g.
	chemical or photolytic) processes. Decomposition under release of oxygen.
	Decomposition under release of oxygen.
	Biodegradability
Result	
Result	
Result Bioaccumulative	: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.
	: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.
	: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.
Bioaccumulative	: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.
Bioaccumulative Component:	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>: potential</li> <li>hydrogen peroxide solution CAS-No. 7722</li> <li>Bioaccumulation</li> </ul>
Bioaccumulative	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>: potential</li> <li>hydrogen peroxide solution CAS-No. 7722</li> </ul>
Bioaccumulative Component:	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>potential</li> <li>hydrogen peroxide solution CAS-No. 7722 Bioaccumulation</li> <li>: log Kow -1.57 (20 °C)</li> </ul>
Bioaccumulative	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>potential</li> <li>hydrogen peroxide solution CAS-No. 7722 Bioaccumulation</li> <li>: log Kow -1.57 (20 °C)</li> </ul>
Bioaccumulative	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>potential</li> <li>hydrogen peroxide solution CAS-No. 7722</li> <li>Bioaccumulation</li> <li>: log Kow -1.57 (20 °C)</li> <li>: Does not bioaccumulate.</li> </ul>
Bioaccumulative	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>potential</li> <li>hydrogen peroxide solution CAS-No. 7722 Bioaccumulation</li> <li>: log Kow -1.57 (20 °C)</li> </ul>
Bioaccumulative	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>potential</li> <li>hydrogen peroxide solution CAS-No. 7722</li> <li>Bioaccumulation</li> <li>: log Kow -1.57 (20 °C)</li> <li>: Does not bioaccumulate.</li> </ul>
Bioaccumulative	<ul> <li>: 100 % (Related to: O2 consumption; Test substance: 30% solution)(OECD)Readily biodegradable.</li> <li>: potential</li> <li>Mydrogen peroxide solution CAS-No. 7722</li> <li>Bioaccumulation</li> <li>: log Kow -1.57 (20 °C)</li> <li>: Does not bioaccumulate.</li> </ul>

Conn	ecting <mark>Chemistry</mark>	BRENNTAG
Hydro	gen peroxide s	olution >0.1 - <5%
A	ir :	not volatile
12.5. Re	sults of PBT and vPv	B assessment
Com	iponent:	hydrogen peroxide solution CAS-No. 7722-84-1
		Results of PBT and vPvB assessment
Re	esult :	The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.
12.6. Ot	her adverse effects	
Com	iponent:	hydrogen peroxide solution CAS-No. 7722-84-1
	A	dsorbed organic bound halogens (AOX)
Re	esult :	Product does not contain any organic halogens.
		Additional ecological information
Re	esult :	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
SECTIO	N 13: Disposal cons	siderations
13.1. Wa	aste treatment method	ds
Ρ	roduct	: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
С	Contaminated packaging	g : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
	uropean Waste atalogue Number	: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.
N	N 14: Transport info lot dangerous goods fo I number	ormation r ADR, RID, IMDG and IATA.
N	lot applicable.	
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<b>ConnectingChemistry</b>		BRENNTAG	
Hyd	lrogen peroxide solu	tion >0.1 - <5%	
14.2.	UN proper shipping name		
	Not applicable.		
14.3.	Transport hazard class(es)		
	Not applicable.		
14.4.	Packaging group		
	Not applicable.		
14.5.	Environmental hazards		
	Not applicable.		
14.6.	Special precautions for use	r	
	Not applicable.		
14.7.	Transport in bulk according	to Annex II of MARPOL 73/78 and the IBC Code	
	IMDG : Not applicab	le	
SEC	TION 15: Regulatory inforr	nation	
15.1.	Safety, health and environm mixture	ental regulations/legislation specific for the substance or	
C	Data for the product		
			- 1
	EU. REACH, Annex XVII, : Marketing and Use Restrictions (Regulation 1907/2006/EC)	; The substance/mixture does not fall under this legislation.	
	Marketing and Use Restrictions (Regulation	; The substance/mixture does not fall under this legislation. ; The substance/mixture does not fall under this legislation.	-
C	Marketing and Use Restrictions (Regulation 1907/2006/EC) EU. Directive : 2012/18/EU (SEVESO III) Annex I		
C	Marketing and Use Restrictions (Regulation 1907/2006/EC) EU. Directive : 2012/18/EU (SEVESO III) Annex I	; The substance/mixture does not fall under this legislation.	1
С	Marketing and Use Restrictions (Regulation 1907/2006/EC) EU. Directive : 2012/18/EU (SEVESO III) Annex I Component: hyd EU. Regulation EU No. : 649/2012 concerning the export and import of	; The substance/mixture does not fall under this legislation. rogen peroxide solution CAS-No. 7722-84-1	]

## ConnectingChemistry



Precursors		Combined Nomenclature ( constituents; Listed Combined Nomenclature (	(CN) Number(s): 3824 90 97; (CN) code for a mixture without (CN) Number(s): 2847 00 00; (CN) code for a separate chemically	
EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325)	:	EC Number: , 231-765-0;	Listed	
EU. Regulation No. 1223/2009 on cosmetic products, Annex III: List of Restricted Substances in Cosmetic Products	:		n ready for use preparation: 6 %; ing products; See the text of the xceptions or provisions.	
		Oral products (including m whitening or bleaching pro- for applicable exceptions of Maximum concentration in products; See the text of th exceptions or provisions. Maximum concentration in Cosmetic products for eye for applicable exceptions of Maximum concentration in Hair products; See the tex exceptions or provisions. Maximum concentration in	a ready for use preparation: 4 %; Skin he regulation for applicable a ready for use preparation: 2 %; elashes; See the text of the regulation or provisions. a ready for use preparation: 12 %; t of the regulation for applicable a ready for use preparation: 2 %; ils; See the text of the regulation for	
WGK (DE)	:	WGK 1: slightly hazardous	s to water: 288	
Notification status				
	hydrogen peroxide solution:			
Regulatory List		otification	Notification number	
AICS DSL		ES ES		
EINECS		ES	231-765-0	
ENCS (JP)		ES	(1)-419	
IECSC		ES		
ISHL (JP)		ES	(1)-419	
KECI (KR)		ES	97-1-2	
KECI (KR)	Y	ES	KE-20204	_
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## **ConnectingChemistry**



NZIOO		1000000		
NZIOC	YES	HSR001326		
NZIOC NZIOC	YES YES	HSR001450 HSR001449		
PHARM (JP)	YES			
PICCS (PH)	YES			
TSCA	YES			
15.2. Chemical safety as	ssessment			
no data available				
SECTION 16: Other inf	iormation			
Full text of H-State	ements referred to unde	r sections 2 and 3.		
H271		olosion; strong oxidizer.		
H302	Harmful if swallowed.			
H314		ourns and eye damage.		
H318 H332	Causes serious eye o Harmful if inhaled.	lamage.		
H335	May cause respirator	v irritation		
H412		e with long lasting effects.		
Abbreviations and	Abbreviations and Acronyms			
BCF	bioconcentra	tion factor		
BOD	biochemical of	oxygen demand		
CAS	Chemical Ab	stracts Service		
CLP	Classification	, Labelling and Packaging		
CMR	carcinogenic	mutagenic or toxic to reproduction		
COD	chemical oxy	gen demand		
DNEL	derived no-ef	fect level		
EINECS	European Inv	rentory of Existing Commercial Chemical Substances		
ELINCS	European Lis	t of Notified Chemical Substances		
GHS	Globally Harr Chemicals	nonized System of Classification and Labelling of		
LC50	median letha	l concentration		
LOAEC	lowest observ	ved adverse effect concentration		
LOAEL	lowest observ	ved adverse effect level		
LOEL	lowest observ	ved effect level		
NLP	no-longer pol	ymer		
NOAEC	no observed	adverse effect concentration		
NOAEL	no observed	adverse effect level		
NOEC	no observed	effect concentration		
NOEL	no observed	effect level		
OECD	Organisation	for Economic Cooperation and Development		
800000000121 / Version	1.0 1	7/18 EN		
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## **ConnectingChemistry**



OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
<b>REACH Auth. No.:</b>	REACH Authorisation Number
REACH AppC. No.:	REACH Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative
Further information	
Key literature references : and sources for data	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for : product classification	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings :	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information :	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.
Indicates updated section.	