

Trade name: ROCLEAN Disinfection for tap water pipes**Product no.:** 1500000157, 1500000160**Current version :** 3.0.0, issued: 12.11.2021**Replaced version:** 2.0.0, issued: 28.04.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****ROCLEAN Disinfection for tap water pipes****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Industrial use

water treatment

Commercial uses: Public sector (administration, education, entertainment, services, crafts)

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

ROTHENBERGER Werkzeuge GmbH

Industriestraße 7

65779 Kelkheim

Telephone no. +49 (0) 61 95 / 800 - 1

Fax no. +49 (0) 6195 / 800 - 3500

e-mail info@rothenberger.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Dam. 1; H318

Ox. Liq. 1; H271

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS03



GHS05

Signal word

Danger

Hazardous component(s) to be indicated on label:

hydrogen peroxide solution

Hazard statement(s)

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H271 May cause fire or explosion; strong oxidiser.

H318 Causes serious eye damage.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash hands thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	hydrogen peroxide solution		
	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22	Acute Tox. 4; H302 Acute Tox. 4; H332 Ox. Liq. 1; H271 Skin Corr. 1A; H314 Aquatic Chronic 3; H412 Eye Dam. 1; H318 STOT SE 3; H335	>= 10.00 - < 25.00 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	B	Eye Irrit. 2; H319: C >= 5% Eye Dam. 1; H318: C >= 8% Skin Irrit. 2; H315: C >= 35% STOT SE 3; H335: C >= 35% Skin Corr. 1B; H314: C >= 50% Ox. Liq. 2; H272: C >= 50% Aquatic Chronic 3; H412: C >= 63% Ox. Liq. 1; H271: C >= 70% Skin Corr. 1A; H314: C >= 70%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

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

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If the patient is likely to become unconscious, place and transport in stable sideways position. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

After skin contact

In case of contact with skin wash off with water. Consult a doctor if skin irritation persists.

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Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

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

Skin irritation; Eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Toxic gases/vapours

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

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

Refer to protective measures listed in sections 7 and 8. Remove persons to safety.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

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

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
List of approved workplace exposure limits (WELs) / EH40			
Hydrogen peroxide			
	WEL short-term (15 min reference period)	2.8 mg/m ³	2 ppm
	WEL long-term (8-hr TWA reference period)	1.4 mg/m ³	1 ppm

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	hydrogen peroxide solution			7722-84-1 231-765-0	
	inhalative	Short term (acut)	local	3	mg/m³
	inhalative	Long term (chronic)	local	1.4	mg/m³

DNEL value (consumer)

CAS / EC no					
No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	hydrogen peroxide solution			7722-84-1 231-765-0	
	inhalative	Short term (acute)	local	1.93	mg/m³
	inhalative	Long term (chronic)	local	0.21	mg/m³

PNEC values

PNEC Values			
No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	hydrogen peroxide solution		7722-84-1 231-765-0
	water	fresh water	0.0126 mg/L
	water	marine water	0.0126 mg/L
	water	fresh water sediment	0.047 mg/kg dry weight
	water	Aqua intermittent	1.38 mg/L
	soil	-	0.0019 mg/kg moist mass
	soil	-	0.0023 mg/kg dry weight
	sewage treatment plant	-	4.66 mg/L

8.2 Exposure controls

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Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	Natural rubber, NR		
Material thickness	>=	0.5	mm
Breakthrough time	>=	8	h
Appropriate Material	Polychloroprene		
Material thickness		0.5	mm
Breakthrough time	>=	8	h
Appropriate Material	butyl rubber		
Material thickness	>=	0.5	mm
Breakthrough time	>=	8	h
Appropriate Material	fluorinated rubber		
Material thickness	>=	0.4	mm
Breakthrough time		8	h
Appropriate Material	nitrile rubber		
Material thickness	>=	0.35	mm
Breakthrough time		8	h

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

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

State of aggregation			
liquid			
Form/Colour			
liquid			
colourless			
Odour			
No data available			
pH value			
Value	3		
Reference temperature	20	°C	
Source	supplier		
Boiling point / boiling range			
No data available			
Melting point/freezing point			

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No data available			
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
No data available			
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
log Pow		-1.57	
Source		ECHA	
Viscosity			
No data available			
Particle characteristics			
No data available			

9.2 Other information

Other information
No data available.

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

Risk of explosion if heated under confinement.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

None known.

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None, if handled according to intended use.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	ROCLEAN Disinfection for tap water pipes
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
LD50		693.7	mg/kg bodyweight
Species with reference to	rat (female)		
Method	70% Solution		
Source	OECD 401		
	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
LD50		>	2000 mg/kg bodyweight
Species with reference to	rabbit		
Method	35% Solution		
Source	OECD 402		
	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	ROCLEAN Disinfection for tap water pipes
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Species with reference to	rabbit		
Method	70% solution		
Source	OECD 404		
Evaluation	ECHA		
	corrosive		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Species with reference to	rabbit		
Method	10% Solution		
	OECD 405		

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Source Evaluation	ECHA strongly irritant
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Respiratory or skin sensitisation		
No	Substance name	CAS no. EC no.
1	hydrogen peroxide solution	7722-84-1 231-765-0
Route of exposure		Skin
Source Evaluation	ECHA non-sensitizing	

Germ cell mutagenicity		
No	Substance name	CAS no. EC no.
1	hydrogen peroxide solution	7722-84-1 231-765-0
Type of examination		2000 mg/l
Species		Micronucleus test
Method		mouse
Source		OECD 474
Evaluation/classification		ECHA Based on available data, the classification criteria are not met.

Reproduction toxicity		
No data available		

Carcinogenicity		
No	Substance name	CAS no. EC no.
1	hydrogen peroxide solution	7722-84-1 231-765-0
Source Evaluation/classification	ECHA Based on available data, the classification criteria are not met.	

STOT - single exposure		
No	Substance name	CAS no. EC no.
1	hydrogen peroxide solution	7722-84-1 231-765-0
Duration of exposure		26 mg/kg bw/d
Species		90 day(s)
with reference to		Mouse (male)
Method		35% Solution
Source		OECD 408
		ECHA

STOT - repeated exposure		
No	Substance name	CAS no. EC no.
1	hydrogen peroxide solution	7722-84-1 231-765-0
Duration of exposure		2.9 mg/kg
Species		28 day(s)
Method		rat
Source		OECD 412
		ECHA

Aspiration hazard		
No data available		

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)		
No	Substance name	CAS no. EC no.

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1	hydrogen peroxide solution	7722-84-1	231-765-0
LC50		16.4	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
EC50		2.4	mg/l
Duration of exposure		48	h
Species	Daphnia pulex		
Method	EPA		
Source	ECHA		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
ErC50		2.62	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
NOEC		0.63	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Source	ECHA		
Evaluation	readily biodegradable		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
log Pow		-1.57	
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

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No data available.

12.7 Other adverse effects

No data available.

12.8 Other information**Other information**

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	5.1
Classification code	O1
Packing group	III
Hazard identification no.	50
UN number	UN2984
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Tunnel restriction code	E
Label	5.1

14.2 Transport IMDG

Class	5.1
Packing group	III
UN number	UN2984
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
EmS	F-H, S-Q
Label	5.1

14.3 Transport ICAO-TI / IATA

Class	5.1
Packing group	III
UN number	UN2984
Proper shipping name	Hydrogen peroxide, aqueous solution
Label	5.1

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

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According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:

P8

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
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Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid

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contractual relationship.

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