

Trade name: KocKlar**Product no.:** 75030**Current version :** 1.0.0, issued: 21.12.2020**Replaced version:** -, issued: -**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****KocKlar****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**Disinfectant
biocide**Uses advised against**

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Koch-Chemie GmbH
Einsteinstr. 42
D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

+353 1 809 2166 (National Poisons Information Centre)

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

Acute Tox. 4; H302

Acute Tox. 4; H332

Eye Dam. 1; H318

Skin Irrit. 2; H315

STOT SE 3; H335

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**

GHS05



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

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hydrogen peroxide solution

Hazard statement(s)

H302+H332 Harmful if swallowed or if inhaled
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

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	>= 25,00 - < 50,00	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)".

Acute toxicity estimate (ATE) values

No	oral	dermal	inhalative
1	693,7 mg/kg bodyweight		11 mg/l

SECTION 4: First aid measures

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4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. 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. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Irregular breathing/no breathing: artificial respiration.

After skin contact

Wash immediately with plenty of water for several minutes. Seek medical attention.

After eye contact

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 out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Alcohol-resistant foam; Carbon dioxide; Dry chemical extinguisher

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: Carbon monoxide (CO); Carbon dioxide (CO₂); Oxidizing due to release of oxygen.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Heat causes increase in pressure and risk of bursting. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

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. Use personal protective clothing.

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. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

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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.

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. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

Recommended storage temperature

Value 10 - 30

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Provide ventilation of containers.

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 Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
Hydrogen peroxide			
	WEL short-term (15 min reference period)	3 mg/m ³	2 ppm
	WEL long-term (8-hr TWA reference period)	1,5 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/m ³
	inhalative	Long term (chronic)	local	1,4 mg/m ³

DNEL value (consumer)

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	1,93 mg/m ³

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inhalative	Long term (chronic)	local	0,21	mg/m ³
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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
	water	marine water
	water	fresh water sediment
	water	Aqua intermittent
	soil	-
	soil	-
	sewage treatment plant	-

8.2 Exposure controls**Appropriate engineering controls**

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. Respiratory protection mask with combination filter.

Respirator NO-P3

Eye / face protection

Tightly fitting safety glasses (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 workstation 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 butyl rubber

Appropriate Material NBR

Material thickness > 0,7 mm

Breakthrough time > 480 min

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

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Odour			
pungent			
pH value			
Value	2	-	4
Concentration			500 g/l
Boiling point / boiling range			
Value			114 °C
Melting point/freezing point			
Value			-52 °C
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
No data available			
Oxidising properties			
not oxidizing			
Explosive properties			
The product does not have explosive properties.			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
Value	0,5	-	1 hPa
Reference temperature			30 °C
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	1,1	-	1,4 g/cm ³
Reference temperature			20 °C
Solubility in water			
Comments	Completely miscible		
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			

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Particle characteristics

No data available

9.2 Other information**Other information**

No data available.

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

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Formation of hydrogen gas possible on contact with certain metals (f.e. aluminium)

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Reducing agents; Alkali metals; organic materials; Amines; Aldehydes; Alcohols; Bases; Acids; Metal as powder

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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	KocKlar
ATE (Mixture)	1401,41 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

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 Method Source	rat (female) 70% Solution 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 Method Source	rabbit 35% Solution OECD 402 ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)

No	Product Name
1	KocKlar
ATE (Mixture)	3,0303 mg/l
Route of exposure / physical form	Dust/mist

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Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.
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Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
LC50		1,5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Source	CEFIC		
LC50		11	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	CEFIC		

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		
Source	OECD 405		
Evaluation	ECHA		
	strongly irritant		

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

STOT - single exposure			

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No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
	Duration of exposure	26 90	mg/kg bw/d day(s)
	Species with reference to Method Source	Mouse (male) 35% Solution 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 28	mg/kg day(s)
	Species with reference to Method Source	rat 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.
1	hydrogen peroxide solution	7722-84-1	231-765-0
	LC50	16,4	mg/l
	Duration of exposure	96	h
	Species with reference to Method Source	Pimephales promelas EPA 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 with reference to Method Source	Daphnia pulex EPA 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	

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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.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.7 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

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Class	5.1
Classification code	OC1
Packing group	II
Hazard identification no.	58
UN number	UN2014
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Tunnel restriction code	E
Label	5.1+8

14.2 Transport IMDG

Class	5.1
Subsidiary Risk	8
Packing group	II
UN number	UN2014
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
EmS	F-H, S-Q
Label	5.1+8

14.3 Transport ICAO-TI / IATA

Class	5.1
Subrisk	8
UN number	UN2014
Proper shipping name	Keine Angabe - Beförderung verboten (A2)
Label	5.1+8
Comments	Transport forbidden.

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

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

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

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This product is not subject to Part 1 or 2 of Annex I.

REGULATION (EU) No 528/2012 concerning the making available on the market and use of biocidal products

Use biocides safely.

Always read the label and product information before use.

hydrogen peroxide solution 495 g/kg

Other regulations

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

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

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)

H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
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 contractual relationship.

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