

SAFETY DATA SHEET

Peracetic Acid 5%

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Issued: 25/03/2019
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Chemical type: Mixture.

Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses:

Description/Application: Stabilised mixture of Peracetic acid, hydrogen peroxide, acetic acid and water.
Oxygen-based bleaching agents.

Industrial/Professional use spec: For professional use only Industrial.

Uses advised against: No uses advised against.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Ox. Liq. 2 H272
Met. Corr. 1 H290
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation: dust, mist) H332
Skin Corr. 1B H314 STOT SE 3 H335
Aquatic Chronic 1 H410

Full text of hazard classes and H-statements: See section 16.

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]:

O; R7
Xn; R22
C; R34

Full text of R-phrases: See section 16.

Adverse physicochemical, human health and environmental effects: No additional information available.

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Label elements:

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictograms (CLP):



GHS03



GHS05



GHS07



GHS09

CLP Signal word:

Danger

Hazardous ingredients:

Peracetic acid; Hydrogen peroxide

Hazard statements (CLP):

H272 - May intensify fire; oxidiser.
H290 - May be corrosive to metals.
H302+H332 - Harmful if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP):

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P234 - Keep only in original container.
P260 - Do not breathe vapours, mist, and spray.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P284 - [In case of inadequate ventilation] wear respiratory protection.
P303+P361+P353+P310 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P403+P235 - Store in a well-ventilated place. Keep cool.

EUH-statements:

EUH071 - Corrosive to the respiratory tract.

Other hazards:

Substance meets the criteria for PBT according to regulation (EG) n°. 1907/2006, annex XIII: Not applicable

P: No

B: No

T: No

Substance meets the criteria for vPBT according to regulation (EG) n°. 1907/2006, annex XIII:

vP: Not

vB: Not

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance: Not applicable

Mixture:

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Hydrogen peroxide	(CAS-no) 7722-84-1	10 - 25	R5
	(Einecs nr) 231-765-0		O; R8
	(EG annex nr) 008-003-00-9		C; R35
	(REACH-no) 01-2119485845-22		Xn; R20/22
Acetic acid	(CAS-no) 64-19-7	5 - 10	R10
	(Einecs nr) 200-580-7		C; R35
	(EG annex nr) 607-002-00-6		
	(REACH-no) 01-2119475328-30		
Peracetic acid	(CAS-no) 79-21-0	3 - 5	R10
	(Einecs nr) 201-186-8		O; R7
	(EG annex nr) 607-094-00-8		Xn; R20/21/22
	(REACH-no) 01-2119531330-56		C; R35 N; R50
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen peroxide	(CAS-no) 7722-84-1	10 - 25	Ox. Liq. 1, H271
	(Einecs nr) 231-765-0		Acute Tox. 4 (Oral), H302
	(EG annex nr) 008-003-00-9		Acute Tox. 4 (Inhalation: dust, mist), H332
	(REACH-no) 01-2119485845-22		Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Chronic 3, H412
Acetic acid	(CAS-no) 64-19-7	5 - 10	Flam. Liq. 3, H226
	(Einecs nr) 200-580-7		Skin Corr. 1A, H314
	(EG annex nr) 607-002-00-6		
	(REACH-no) 01-2119475328-30		
Peracetic acid	(CAS-no) 79-21-0	3 - 5	Flam. Liq. 3, H226
	(Einecs nr) 201-186-8		Org. Perox. D, H242
	(EG annex nr) 607-094-00-8		Acute Tox. 4 (Oral), H302
	(REACH-no) 01-2119531330-56		Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M=10)

Full text of R- and H-statements: See section 16

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4. FIRST AID MEASURES

Description of first aid measures:

General advice:	In case of doubt or persistent symptoms, consult always a physician.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If necessary administer pulmonary resuscitation or oxygen, and keep warm.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Rinse mouth out with water. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed:

Acute effects inhalation:	May cause respiratory irritation.
Acute effects skin:	Causes severe burns.
Acute effects eyes:	Corrosive to eyes.
Acute effects oral route:	Harmful if swallowed. Burns of the upper digestive and respiratory tracts.
Indication of any immediate medical attention and special treatment needed: No additional information available.	

5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media: water in large amounts.

Special hazards arising from the substance or mixture:

Fire hazard:	Heating may cause a fire.
Explosion hazard:	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Advice for firefighters:

Special protective equipment for fire-fighters: Use self-contained breathing apparatus and chemically protective clothing.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel: Wear protective clothing. Evacuate personnel to a safe area.

For emergency responders: No additional information available.

Environmental precautions: Avoid release to the environment.

Methods and material for containment and cleaning up: Absorb spilled material with sand or earth. Do NOT absorb in saw-dust, paper, cloth or other combustible absorbents.

Reference to other sections: No additional information available.

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7. HANDLING AND STORAGE

Precautions for safe handling: Do not eat, drink or smoke in areas where product is used. Shower, eyes shower and water point in proximity. Wear personal protective equipment (see item 8). Ventilation, local exhaust, or breathing protection. Avoid aerosol building. Never return unused material to original container. Handle and open container with care. When handling product, avoid contact with eyes, skin and clothing. Keep container tightly closed in a cool place.

Conditions for safe storage, including any incompatibilities: Protect material from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible products/materials (see section 10). Recommended storage temperature: between -20°C and 30°C. Keep only in the original container.

Specific end use(s): No additional information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Hydrogen peroxide (7722-84-1):

United Kingdom	WEL TWA (mg/m ³)	1.4 mg/m ³
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (mg/m ³)	2.8 mg/m ³
United Kingdom	WEL STEL (ppm)	2 ppm

Exposure controls:

Hand protection: Chemical resistant PVC/Nitrile rubber gloves (to European standard EN 374 or equivalent). Thickness: 0.4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection: Safety glasses with side-shields (EN 166).

Protective equipment: Wear suitable protective clothing (EN 14605). Long sleeved protective clothing.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Liquid
Physical state/form:	Liquid
Colour:	Clear and colourless
Odour:	Acrid and pungent.
Odour threshold:	No data available

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pH:	3.4 ± 0.5 (aqueous solution of 0.3%); 0.5 ± 0.2(100%)
Melting point/range:	No data available
Freezing point:	No data available
Boiling point/Boiling range:	>= 100 °C
Flash point:	> 80 °C
Relative evaporation rate (butyl acetate=1):	No data available
Flammability (solid, gas):	No data available
Explosive limits:	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	1115 kg/m ³
Solubility:	No data available
Log Pow:	No data available
Autoignition temperature:	> 250 °C
Decomposition temperature:	>= 60 °C (SADT for <=1000L and 26m ³ non-insulated tank)
Viscosity:	<30 mPa.s dynamic: <30 mPa.s
Other information:	No additional information available

10. STABILITY AND REACTIVITY

Reactivity:	No additional information available.
Chemical stability:	Stable in use and storage conditions as recommended in item 7. Avoid contamination with organic substances. Contact with alkaline products gives exothermic reaction. Heating may cause a fire.
Possibility of hazardous reactions:	No additional information available.
Conditions to avoid:	Direct sunlight. Heating. Heat. Sparks. Open flame.
Incompatible materials:	Iron or steel. Copper and copper alloys. Galvanized steel. Strong acids. Strong bases. Metals. Never mix with other materials.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:	
Acute toxicity:	Harmful if swallowed. Harmful if inhaled.
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Specific target organ toxicity (single exposure):	May cause respiratory irritation.

Acetic acid (64-19-7):

LD50 oral rat	3310 mg/kg
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Hydrogen peroxide (7722-84-1):

LD50 dermal rabbit	>2000 mg/kg
ATE CLP (oral)	1,193 mg/kg bodyweight
ATE CLP (dust, mist)	1,500 mg/l/4h

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Peracetic acid (79-21-0):

ATE CLP (oral)	500,000 mg/kg bodyweight
ATE CLP (dermal)	1100,000 mg/kg bodyweight
ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	11,000 mg/l/4h
ATE CLP (dust, mist)	1,500 mg/l/4h

12. ECOLOGICAL INFORMATION

Toxicity:

Ecology - water: Very toxic to aquatic life with long lasting effects.

Acetic acid (64-19-7):

LC50 fish 1	>300 mg/l
EC50 Daphnia 1	>300 mg/l
EC50 other aquatic organisms 1	>300 mg/l
ErC50 (algae)	>300 mg/l

Hydrogen peroxide (7722-84-1):

LC50 fish 1	16.4 mg/l
EC50 Daphnia 1	2.4 mg/l
ErC50 (algae)	1.38 mg/l

Persistence and degradability: No additional information available

Peracetic acid (79-21-0):

Persistence and degradability: Biodegradable. OECD 301E method (Ready biodegradability: Modified OECD Screening Test).

Bioaccumulative potential: No additional information available.

Mobility in soil: No additional information available.

Results of PBT and vPvB assessment: No additional information available.

Other adverse effects:

Other information: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste / unused products: Collect all waste in suitable and labelled containers and dispose according to local legislation.

European List of Waste (LoW) code: 07 06 01* - aqueous washing liquids and mother liquors.

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14. TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / AND:

UN number:

UN-No. (ADR): 3149

UN proper shipping name:

Proper shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED

Transport document description (ADR): UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, (E), ENVIRONMENTALLY HAZARDOUS

Transport hazard class(es):

Class (ADR): 5.1

Subsidiary risk (ADR): 8

Danger labels (ADR): 5.1, 8



Packing group:

Packing group (UN): II

Environmental hazards:



Other information: No supplementary information available.

Special precautions for user:

Overland transport:

Hazard identification number (Kemler No.): 58

Classification code (ADR): OC1

Special provisions (ADR): 196, 553

Transport category (ADR): 2

Tunnel code: E

Limited quantities (ADR): 1I

LQ: LQ10

Excepted quantities (ADR): E2

EAC code: 2P

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Transport by sea: No additional information available.

Air transport:

Instruction "cargo" (ICAO): 554

Instruction "passenger" (ICAO): 550

Instruction "passenger" - Limited quantities (ICAO): Y540

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU-Regulations: Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

Detergent Regulation:

Labelling of contents:

Component: %

Oxygen-based bleaching agents: 15-30%

Phosphonates: <5%

National regulations: No additional information available.

Chemical safety assessment:

For the following substances of this mixture a chemical safety assessment has been carried out: Peracetic acid

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation: dust, mist)	Acute toxicity (inhalation: dust, mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment- Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Flam. Liq. 3	Flammable liquids, Category 3
Met. Corr. 1	Corrosive to metals, Category 1
Org. Perox. D	Organic Peroxides, Type D
Ox. Liq. 1	Oxidising Liquids, Category 1

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Ox. Liq. 2	Oxidising Liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity- Single exposure, Category 3, Respiratory tract irritation.
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R5	Heating may cause an explosion.
R50	Very toxic to aquatic organisms.
R7	May cause fire.
R8	Contact with combustible material may cause fire.
C	Corrosive.
N	Dangerous for the environment.
O	Oxidising.
Xn	Harmful.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.