

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.
For professional use only.

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]:

Org. Perox. F H242
Met. Corr. 1 H290
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation: dust, mist) H332
Skin Corr. 1A H314
STOT SE 3 H335
Aquatic Chronic 1 H410

Full text of H-phrases: See section 16.

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

O; R7
Xn; R20/21/22
C; R35

Full text of R-phrases: See section 16.

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

Label elements:

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

Hazard pictograms (CLP):



GHS02

GHS05

GHS07

GHS09

CLP Signal word:

Danger

Hazardous ingredients:

Peracetic acid, Acetic acid, Hydrogen peroxide.

Hazard statements (CLP):

H242 - Heating may cause a fire.

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 open flames, sparks, heat, hot surfaces. - No smoking.

P220 - Keep/Store away from combustibles.

P261 - Avoid breathing vapours, mist, and spray.

P280 - Wear protective gloves, protective clothing, face protection.

P301+P330+P331+P310 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

EUH phrases:

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
Acetic acid	(CAS-no) 64-19-7	<= 30	R10
	(Einecs nr) 200-580-7		C; R35
	(EG annex nr) 607-002-00-6		
	(REACH-no) 01-2119475328-30		
Hydrogen peroxide	(CAS-no) 7722-84-1	15 - 30	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
Peracetic acid	(CAS-no) 79-21-0	10 - 20	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]
Acetic acid	(CAS-no) 64-19-7	<= 30	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		
Hydrogen peroxide	(CAS-no) 7722-84-1	15 - 30	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
Peracetic acid	(CAS-no) 79-21-0	10 - 20	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 (M=10) Aquatic Chronic 1, H410

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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:	Take victim to fresh air, in a quiet place. If necessary administer pulmonary resuscitation or oxygen, and keep warm.
Skin contact:	Remove/Take off immediately all contaminated clothing. Wash skin with plenty of water and soap.
Eye contact:	Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. 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:	Irritating to the respiratory system, may cause throat pain and cough.
Acute effects skin:	Corrosive.
Acute effects eyes:	Acute eye corrosion.
Acute effects oral route:	Burns of the upper digestive and respiratory tracts. Severe damage to the delicate tissue and danger of perforation.

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: No additional information available.

Advice for firefighters:

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

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: Prevent liquid from entering sewers, rivers.

Methods and material for containment and cleaning up: Dilute small spillage well and wash away with large quantities of water. 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. Wear personal protective equipment (see item 8). If on skin, take off contaminated clothing. Not for non-authorized person. Shower, eyes shower and water point in proximity. Ventilation, local exhaust, or breathing protection. Avoid aerosol building. Never return unused material to original container. When handling product, avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities: Only store product in original container. Keep away from heat and direct sunlight. Keep away from combustible material. Store tightly closed in a dry and cool place; avoid all contamination.

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:

Face shield.

Protective equipment:

Long sleeved protective clothing. Wear suitable protective clothing (EN 14605).

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.

Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust.

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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
pH:	0.5 ± 0.5 (100%)
Melting point/range:	No data available
Freezing point:	No data available
Boiling point/Boiling range:	> 100 °C
Flash point:	80°C (closed cup)
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:	1149 ± 25 kg/m ³
Solubility:	Water: completely soluble
Log Pow:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	≥ 60 °C (SADT for ≤1000L and 26m ³ non-insulated tank)
Viscosity:	< 30 ± 2 mPa.s
Other information:	No additional information available

10. STABILITY AND REACTIVITY

Reactivity:	No additional information available.
Chemical stability:	No decomposition if used as directed. Contact with alkaline products gives exothermic reaction. Avoid contamination with organic substances.
Possibility of hazardous reactions:	No additional information available.
Conditions to avoid:	Heating. Direct sunlight.
Incompatible materials:	Bases. Organic materials. Metals.
Hazardous decomposition products:	Acetic acid.

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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.

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

Acetic acid (64-19-7):

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

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

12. ECOLOGICAL INFORMATION

Toxicity:

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: Readily biodegradable, according to appropriate OECD test.

Peracetic acid (79-21-0):

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

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Bioaccumulative potential: No bioaccumulation.
Mobility in soil: No additional information available.
Results of PBT and vPvB assessment: No additional information available.
Other adverse effects: No additional information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

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

14. TRANSPORT INFORMATION

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

UN number:

UN-No. (ADR): 3109

UN proper shipping name:

Proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID

Transport document description (ADR): UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (peroxy acetic acid, stabilised), 5.2 (8), (D), ENVIRONMENTALLY HAZARDOUS

Transport hazard class (es):

Class (ADR): 5.2

Danger labels (ADR): 5.2, 8



Packing group:

Packing group (UN): Not applicable.

Environmental hazards:



Other information: No supplementary information available.

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Special precautions for user:

Overland transport:

Hazard identification number (Kemler No.): 539

Classification code (ADR): P1

Tunnel code: D

LQ: LQ16

Excepted quantities (ADR): E0

Transport by sea: No additional information available.

Air transport: No additional information available.

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 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: $\geq 30\%$

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-phrases:

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

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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
Org. Perox. F	Organic Peroxides, Type F
Ox. Liq. 1	Oxidising Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
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
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.
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.