

According to Regulation (EC) No 1907/2006

PES 32®

Version number: 7.51
Issued: 2025-12-08
Replaces SDS: 2025-06-30



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

PES 32®

UFI code

XXMF-8M63-YF1Q-41EV

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Liquid detergent / disinfectants, for professional users.

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet

Supplier

KLEEN PURGATIS GmbH

Address

Dieselstraße 10
32120 Hiddenhausen
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Web site

www.kleenpurgatis.de

Contact person

Regulatory Affairs

Email

info@kleen-purgatis.de

1.4. Emergency telephone number

+49 (0) 551 - 19240 (GIZ-Nord)

Available outside office hours

Yes

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Corrosive to metals, hazard category 1
Acute toxicity, oral, hazard category 4
Acute toxicity, dermal, hazard category 4
Acute toxicity, inhalation, hazard category 4
Skin corrosion, hazard category 1A
Serious eye damage, hazard category 1
Hazardous to the aquatic environment — Chronic hazard category 1
Organic peroxides, Type G
Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation
Hazardous to the aquatic environment — Acute hazard category 1

Hazard statements

H290, H302, H312, H314, H318, H332, H335, H400, H410

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental hazard statements

EUH071 Corrosive to the respiratory tract.

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Precautionary statements

P234 Keep only in original packaging.
P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

More information

Hazard components for labeling:
hydrogen peroxide
peracetic acid
acetic acid

2.3. Other hazards

Risk of decomposition on contact with incompatible substances, impurities, metals, alkalis, reducing agents. Risk of decomposition when exposed to heat. The release of oxygen can promote fire. Use biocidal products with care. Always read the label and product information before use. This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

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**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
hydrogen peroxide	7722-84-1 231-765-0 01-2119485845-22-xxxx 008-003-00-9	≥25 - <30%	Ox. Liq. 1, Acute Tox. 4 - oral, Skin Corr. 1A, Acute Tox. 4 - inhalation	H271, H302, H314, H332 - -	Skin Corr. 1A, H314: C ≥ 70% Skin Corr. 1B, H314: 50% ≤ C < 70% Skin Irrit. 2, H315: 35% ≤ C < 50% Ox. Liq. 1, H271: C ≥ 70% Ox. Liq. 2, H272: 50% ≤ C < 70% Eye Dam. 1, H318: 8% ≤ C < 50% Eye Irrit. 2, H319: 5% ≤ C < 8%	B
acetic acid	64-19-7 200-580-7 01-2119475328-30-xxxx 607-002-00-6	≥5 - <10%	Flam. Liq. 3, Skin Corr. 1A	H226, H314 - -	Skin Corr. 1A, H314: C ≥ 90% Skin Corr. 1B, H314: 25% ≤ C < 90% Skin Irrit. 2, H315: 10% ≤ C < 25% Eye Irrit. 2, H319: 10% ≤ C < 25%	B
peracetic acid	79-21-0 201-186-8 01-2119531330-56 607-094-00-8	4 - <6%	Org. Perox. D, Acute Tox. 3 - oral, Acute Tox. 2 - dermal, Skin Corr. 1A, Acute Tox. 2 - inhalation, Aquatic Acute 1, Aquatic Chronic 1	H242, H301, H310, H314, H330, H400, H410, EUH071 M-acut=10 M-chro=100	STOT SE 3, H335: C ≥ 1% ATE [Oral]: 80 mg/kg bw ATE [Dermal]: 60 mg/kg bw ATE [Inhalation – Dust/mist or aerosol]: 0.2 mg/L	B D T

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.
Seek immediate medical attention/advice.

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Call a physician immediately.

Skin contact

Remove contaminated clothing and shoes. IF ON SKIN: Wash with plenty of soap and water. Call a physician immediately.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Ingestion

If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Information for doctors

Show this safety data sheet to the doctor in attendance.

4.2. Most important symptoms and effects, both acute and delayed

Immediate effects can be expected after long-term exposure. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Later control for pneumonia and lung oedema. Risk of serious damage to the lungs (by aspiration).

Inhalation

Corrosive to the respiratory tract

Skin contact

Causes skin burns.

Eye contact

Causes eye burns.

Ingestion

Causes digestive tract burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide (CO₂).

Unsuitable extinguishing media

high volume water jet - Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Container may rupture on heating. May explode in fire. Oxidising properties . Hazardous decomposition products formed under fire conditions. carbon dioxide (CO₂) carbon monoxide (CO) , Flammable gases . Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

Measures in case of fire

In case of fire: Evacuate area and fight fire remotely due to the risk of explosion. Eliminate all ignition sources if safe to do so. In the event of fire, cool tanks with water spray. Pay attention to flash-back. Flash back possible over considerable distance.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid direct contact with the material / product. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

Immediately evacuate personnel to safe areas.

Remove all sources of ignition.

6.2. Environmental precautions

Suppress (knock down) gases/vapours/mists with a water spray jet. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Ensure adequate ventilation, especially in confined areas.

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6.4. Reference to other sections

For information on storage and handling see section 7.
For personal protection see section 8.
For information on incompatible materials, see Section 10.
For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear personal protective equipment. Avoid direct contact with the material / product.

Avoid breathing vapors, mist or gas. Do not exceed the specified exposure limit values. Provide sufficient air exchange and/or exhaust in work rooms. In case of inadequate ventilation wear respiratory protection.

Take any precaution to avoid mixing with combustibles. Keep away from sources of ignition - No smoking. Keep away from heat. Keep away from direct sunlight.

Handle and open container with care. Do not use pressure to empty drums.

General hygiene

Handle in accordance with good industrial hygiene and safety practice.
When using, do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Store in a receptacle equipped with a vent.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Storage temperature: max. 18°C.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Do not store near combustible materials. Store the container in such a way that any leaking liquid is collected in a drip tray.
Store in a place accessible by authorized persons only. Keep away from food, drink and animal feeding stuffs.

Storage class according to TRGS 510: 5.2 (organic peroxides and self-reactive hazardous substances)

7.3. Specific end use(s)

See section 1.2: Liquid detergent / disinfectants,
PC8 - Biocidal products (e.g. Disinfectants, pest control)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
acetic acid (EU)	64-19-7 200-580-7	10 / 25	2017/164		-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
hydrogen peroxide (7722-84-1/231-765-0)	DNEL	Chronic (long term) Inhalation	1.4 mg/m ³	Workers	Local
hydrogen peroxide (7722-84-1/231-765-0)	DNEL	Chronic (long term) Inhalation	0.21 mg/m ³	Consumers	Local
acetic acid (64-19-7/200-580-7)	DNEL	Chronic (long term) Inhalation	25 mg/m ³	Workers	Local
acetic acid (64-19-7/200-580-7)	DNEL	Acute (short term) Inhalation	25 mg/m ³	Workers	Local
peracetic acid (79-21-0/201-186-8)	DNEL	Chronic (long term) Inhalation	0.5 mg/m ³	Workers	Local
peracetic acid (79-21-0/201-186-8)	DNEL	Acute (short term) Inhalation	0.6 mg/m ³	Workers	Local
peracetic acid (79-21-0/201-186-8)	DNEL	Chronic (long term) Inhalation	0.56 mg/m ³	Workers	Systemic
peracetic acid (79-21-0/201-186-8)	DNEL	Acute (short term) Inhalation	0.56 mg/m ³	Workers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
hydrogen peroxide (7722-84-1/231-765-0)	PNEC	Freshwater	0.013 mg/l
hydrogen peroxide (7722-84-1/231-765-0)	PNEC	Marine water	0.013 mg/l
hydrogen peroxide (7722-84-1/231-765-0)	PNEC	Sediment (freshwater)	0.047 mg/kg
hydrogen peroxide	PNEC	Sediment (marine water)	0.047

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(7722-84-1/231-765-0)			mg/kg
hydrogen peroxide (7722-84-1/231-765-0)	PNEC	Soil	0.0023 mg/kg
hydrogen peroxide (7722-84-1/231-765-0)	PNEC	Sewage Treatment Plant	4.66 mg/l
acetic acid (64-19-7/200-580-7)	PNEC	Freshwater	3.058 mg/l
acetic acid (64-19-7/200-580-7)	PNEC	Marine water	0.3058 mg/l
acetic acid (64-19-7/200-580-7)	PNEC	Sewage Treatment Plant	85 mg/l
acetic acid (64-19-7/200-580-7)	PNEC	Sediment (freshwater)	11.36 mg/kg
acetic acid (64-19-7/200-580-7)	PNEC	Sediment (marine water)	1.136 mg/kg
acetic acid (64-19-7/200-580-7)	PNEC	Soil	0.47 mg/kg
peracetic acid (79-21-0/201-186-8)	PNEC	Freshwater	0.069 µg/l
peracetic acid (79-21-0/201-186-8)	PNEC	Marine water	0.007 µg/l
peracetic acid (79-21-0/201-186-8)	PNEC	Sewage Treatment Plant	0.051 mg/l
peracetic acid (79-21-0/201-186-8)	PNEC	Sediment (freshwater)	0 mg/kg
peracetic acid (79-21-0/201-186-8)	PNEC	Soil	0.282 mg/kg
peracetic acid (79-21-0/201-186-8)	PNEC	Sediment (marine water)	0 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Do not exceed the specified exposure limit values.

Eye / face protection

Safety glasses with side-shields conforming to EN166

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Hand protection

Butyl (butyl rubber) or NBR (nitrile rubber), category III according to EN 374.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Other skin protection

Protective suit: Neoprene, PVC.

Do not wear protective clothes containing cotton.

Respiratory protection

In the case of vapour formation use a respirator with an approved filter. Recommended Filter type: A2B2E2K1P2 (Draeger), OV/AG (3M), ABEK2P3 (3M)

In case of inadequate ventilation wear respiratory protection. suitable respiratory equipment: self-contained breathing apparatus

Thermal hazards

Not applicable.

Environmental exposure controls

Reference to other sections:

SECTION 6: Accidental release measures;

SECTION 12: Ecological information

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

colourless

Odour

pungent

Odour threshold

Not determined for the mixture.

Melting point / freezing point

-30 - -26 °C

Boiling point or initial boiling point and boiling range

> 60 °C

Method

calculation method

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Flammability

Not determined for the mixture.

Lower and upper explosion limit

May form explosive mixtures in air.

Flash point

No data available

Auto-ignition temperature

not auto-flammable

Decomposition temperature

Not determined for the mixture.

pH

0.2

Kinematic viscosity

1,208 mm²/s (20 °C, OECD 114); 0,814 mm²/s (40 °C, DIN 51562)

Viscosity, dynamic

Not determined for the mixture.

Solubility

Water soluble

Water solubility

completely soluble

Partition coefficient n-octanol/water

Not determined for the mixture.

Vapour pressure

14.1 hPa

Density and/or relative density

1.1261 g/cm³

Method

OECD 109

Relative vapour density

Not determined for the mixture.

Evaporation Rate

Not determined for the mixture.

Explosive properties

Vapours may form explosive mixtures with air.

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Oxidising properties

The product / mixture has no oxidizing properties.

Method

UN Test O.2 (oxidizing liquids): Negativ

VOC %

EU-Richtlinie 2004/42: 0,43 g/l ~38,44 % (calculated)

Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

9.2. Other information

Minimum ignition temperature: 435 °C (DIN 51794)

SECTION 10: Stability and reactivity

10.1. Reactivity

To avoid thermal decomposition, do not overheat. Heating may cause an explosion.

10.2. Chemical stability

Stable at normal conditions No decomposition if stored and applied as directed.

Decomposes on heating. (Explosive)

10.3. Possibility of hazardous reactions

Container may rupture on heating. Explosive - Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Keep away from fire, sparks and heated surfaces.

10.5. Incompatible materials

Impurities, metals, heavy metal salts, reducing agents, bases, amines, hydrocarbons, organic solvent.

Monomer - Hazardous polymerisation may occur.

Keep away from combustible materials.

10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

Explosive - Hazardous decomposition products formed under fire conditions.

Thermal decomposition: steam, oxygen, acetic acid

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Harmful by inhalation, in contact with skin and if swallowed.

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Acute toxicity

ATEmix, oral: 808,06 mg/kg
ATEmix, inhalation: 2,35 mg/l Fog
ATEmix, inhalation: 41,67 mg/l Vapour
LD50, Kaninchen - dermal: 1147 mg/kg (US-EPA-Methode)

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
peracetic acid 79-21-0 / 201-186-8	LC50	0,2 mg/l	Inhalation : dusts or mists	-	-	Harmonised classification
peracetic acid 79-21-0 / 201-186-8	LD50	60 mg/kg	Dermal	-	-	Harmonised classification
hydrogen peroxide 7722-84-1 / 231-765-0	LC50	11 mg/l	Inhalative : vapours	4h	rat	-
hydrogen peroxide 7722-84-1 / 231-765-0	LD50	431 mg/kg	oral	-	rat	-
peracetic acid 79-21-0 / 201-186-8	LD50	80 mg/kg	Oral	-	-	Harmonised classification

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Corrosive to the respiratory tract

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

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STOT-single exposure

Corrosive to the respiratory tract

STOT-repeated exposure

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

Aspiration hazard

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

Toxicity in case of inhalation

ATEmix: 41,67 mg/l (Schätzwert akute Toxizität des Gemischs) vapours
Corrosive to the respiratory tract

Toxicity in case of ingestion

ATEmix: 808,06 mg/kg (Schätzwert akute Toxizität des Gemischs)

11.2. Information on other hazards

Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicology data for the components :

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
acetic acid 64-19-7 / 200-580-7	LC50	> 300,8 mg/l	96 h	-	-
peracetic acid 79-21-0 / 201-186-8	LC50	1,1 mg/l	96 h	-	-
hydrogen peroxide 7722-84-1 / 231-765-0	LC50	16,4 mg/l	96h	Pimephales promelas (fathead minnow)	ECHA

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**Acute algae toxicity**

Product / Sub-stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
hydrogen peroxide 7722-84-1 / 231-765-0	EC50	5,74 mg/l	96h	Algae	Average value	GESTIS
acetic acid 64-19-7 / 200-580-7	ErC50	> 300,8 mg/l	72h	-	-	-
peracetic acid 79-21-0 / 201-186-8	ErC50	0,16 mg/l	72 h	-	-	-

Acute crustacean toxicity

Product / Sub-stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
peracetic acid 79-21-0 / 201-186-8	EC50	0,27 mg/l	48 h	-	-
hydrogen peroxide 7722-84-1 / 231-765-0	LC50	2,4 mg/l	48h	Daphnia pulex (Water flea)	ECHA
acetic acid 64-19-7 / 200-580-7	EC50	> 300,8 mg/l	48h	Daphnia magna (Water flea)	-

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
peracetic acid 79-21-0 / 201-186-8	EC50	38,6 mg/l	3 h	Microorganisms

12.2. Persistence and degradability

98 % (28 d, OECD 301 E)

Readily biodegradable

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12.3. Bioaccumulative potential

Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)	Method / Guideline
acetic acid 64-19-7 / 200-580-7	-0,17	3,16	Literatur / rechnerisch

12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

12.7. Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

Other

German Water Class

WGK2 - significantly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging: Dispose of as unused product.

Waste code	Waste description
16 09 03*	peroxides, for example hydrogen peroxide

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

3149

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14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED

IMDG proper shipping name

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



8



5.1



Environmental hazard

ADR / RID Class

5.1

ADR / RID Classification code

OC1

ADR / RID hazard identification number

58

IMDG Class

5.1

IATA Class

5.1

ADN Class

5.1

ADN Class Code

OC1

14.4. Packing group

II

14.5. Environmental hazards

Environmental hazards

Yes (hydrogen peroxide, peracetic acid)

IMDG Marine Pollutant

Yes (hydrogen peroxide, peracetic acid)

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14.6. Special precautions for user

Special precautions for user

Handle in accordance with good industrial hygiene and safety practice. Keep away from heat.

IMDG EmS

F-H, S-Q

14.7. Maritime transport in bulk according to IMO instruments

-

Other

Additional information ADR-RID

LQ: 1 L

EQ: E2

Transport category (tunnel restriction code): 2 (E)

Special Provisions Handling : CV24

Additional information IATA (ICAO)

Packing instruction (cargo aircraft) : 554

Packing instruction (cargo aircraft) : 550

Packing instruction (LQ) : Y540 Packing group : II

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SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: 15 - 30 % oxygen-based bleaching agents

Regulation (EC) No. 1272/2008 (CLP)

EU Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: not applicable

Substance restrictions according to Annex XVII: not applicable

Substances on the REACH candidate list (SVHC): not applicable

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: hydrogen peroxide (CAS: 7722-84-1), peracetic acid (CAS: 79-21-0)

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: hydrogen peroxide (CAS: 7722-84-1)

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category:

E1 - Hazardous to the aquatic environment :

Lower quantity threshold: 100 t / Upper quantity threshold: 200 t

P6b - Self-reactive substances and mixtures and Organic peroxides:

Lower quantity threshold: 50 t / Upper quantity threshold: 200 t

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

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SECTION 16: Other information

Changes to previous revision

Rev. 7.4: SECTION 11: hydrogen peroxide - source: Acute inhalation toxicity

Rev. 7.5: ATE / Acute toxicity

Section 2. Hazards identification: Classification as an organic peroxide, Typ G

Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

CAS - Chemical Abstracts Service

CE - Conformité Européenne (European conformity)

CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

EINECS - European Inventory of Existing Commercial chemical Substances

ES - Exposure Scenario

EUH statement - CLP-specific Hazard statement

EuPCS - European Product Categorisation System

EWG - European Waste Catalogue

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

GWP - Global warming potential

IARC - International Agency for Research on Cancer (IARC)

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

LogPow - logarithm of the octanol/water partition coefficient

MARPOL - International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)

OECD - Organisation for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted No Effect Concentration

RID - The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN - REACH Registration Number

SCL - A specific concentration limit

STOT-RE - Specific Target Organ Toxicity - Repeated Exposure

STOT-SE - Specific Target Organ Toxicity - Single Exposure

SVHC - Substances of Very High Concern

TWA - Time weighted average

UN - United Nations

UVBC - Unknown or variable composition, complex reaction products or of biological materials

VOC - Volatile Organic Compound

vPvB - Very Persistent and Very Bioaccumulative

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References to key literature and data sources

REACH registration dossiers
 ECHA C&L - Inventory
 Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:
 Physical hazards: Bridging principles
 Organic peroxides, Type G : Expertenurteil
 Health hazards: calculation method
 Environmental hazards: calculation method

Phrase meaning

Met. Corr. 1 - Corrosive to metals, hazard category 1
 Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
 Acute Tox. 4 - dermal - Acute toxicity, dermal, hazard category 4
 Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4
 Skin Corr. 1A - Skin corrosion, hazard category 1A
 Eye Dam. 1 - Serious eye damage, hazard category 1
 Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
 Org. Perox. G - Organic peroxides, Type G
 STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation
 Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
 Ox. Liq. 1 - Oxidising liquids, hazard category 1
 Flam. Liq. 3 - Flammable liquids, hazard category 3
 Org. Perox. D - Organic peroxides, Type D
 Acute Tox. 3 - oral - Acute toxicity, oral, hazard category 3
 Acute Tox. 2 - dermal - Acute toxicity, dermal, hazard category 2
 Acute Tox. 2 - inhalation - Acute toxicity, inhalation, hazard category 2
 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.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
 H310 Fatal in contact with skin.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 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.
 EUH071 Corrosive to the respiratory tract.

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Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Note 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.

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

Note T: This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.