# PERACETIC ACID 5%

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 2/22/2016 Revision date: 3/27/2024 Supersedes version of: 8/7/2023 Version: 17.0

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Product name | : | PERACETIC ACID 5% |
| UFI | : | PHK4-20FH-400C-GSUK |
| Type of product | : | Disinfectant |
| Synonyms | : | PAA5 |
| Product group | : | End product |

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

#### 1.2.1. Relevant identified uses

| | | |
|---|---|---|
| Main use category | : | Industrial use |
| Use of the substance/mixture | : | Bactericide |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Central Chemical Supplies Limited
44 Hall Road
BT66 7LJ Donaghcloney Craigavon
Northern Ireland
T 02838881936, F 02838882335
Info@ccsni.co.uk, www.centralchemicalsupplies.co.uk

### 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566 (Healthcar professionals-24/7)<br>+353 1 809 2166 (public, 8am - 10pm, 7/7) | In Northern Ireland: contact your local GP or pharmacist during normal hours |
| UK | National Poisons Information Service | | +44 (0)344 892 0111<br>(healthcare professionals) 111 (public) | |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Oxidising Liquids, Category 2 | H272 |
| Skin corrosion/irritation, Category 1 | H314 |
| Serious eye damage/eye irritation, Category 1 | H318 |

Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

May intensify fire; oxidiser. Harmful if inhaled. May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS03 GHS05

Signal word (CLP) : Danger

Contains : ACETIC ACID 80%; HYDROGEN PEROXIDE SOLUTION...100%; peracetic acid . . . %

Hazard statements (CLP) : H272 - May intensify fire; oxidiser.
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 - Keep away from clothing and other combustible materials.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

## 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|---|---|
| Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | ACETIC ACID 80% (64-19-7) |

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| HYDROGEN PEROXIDE SOLUTION...100% substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, SE, SK, IS, NO, MK, CH) | CAS-No.: 7722-84-1<br>EC-No.: 231-765-0<br>EC Index-No.: 008-003-00-9 | 25 – 50 | Ox. Liq. 1, H271<br>Acute Tox. 4 (Inhalation), H332 (ATE=2 mg/l/4h)<br>Acute Tox. 4 (Oral), H302 (ATE=693.7 mg/kg bodyweight)<br>Skin Corr. 1A, H314 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| ACETIC ACID 80%<br>substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 64-19-7<br>EC-No.: 200-580-7<br>EC Index-No.: 607-002-00-6<br>REACH-no: 01-2119475328- | 10 – 25 | Flam. Liq. 3, H226<br>Skin Corr. 1A, H314 |
| peracetic acid . . . %<br>substance with national workplace exposure limit(s) (BE, CZ, FI, IE, PL, PT) | CAS-No.: 79-21-0<br>EC-No.: 201-186-8<br>EC Index-No.: 607-094-00-8 | 5 – 10 | Flam. Liq. 3, H226<br>Org. Perox. D, H242<br>Acute Tox. 4 (Oral), H302 (ATE=1540 mg/kg bodyweight)<br>Acute Tox. 4 (Dermal), H312 (ATE=1410 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=0.45 mg/l/4h)<br>Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.45 mg/l/4h)<br>Skin Corr. 1A, H314<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |

| Specific concentration limits: | | |
|---|---|---|
| **Name** | **Product identifier** | **Specific concentration limits (%)** |
| HYDROGEN PEROXIDE SOLUTION...100% | CAS-No.: 7722-84-1<br>EC-No.: 231-765-0<br>EC Index-No.: 008-003-00-9 | (5 ≤ C < 8) Eye Irrit. 2, H319<br>(8 ≤ C < 50) Eye Dam. 1, H318<br>(35 ≤ C < 50) Skin Irrit. 2, H315<br>(35 ≤ C ≤ 100) STOT SE 3, H335<br>(50 ≤ C < 70) Ox. Liq. 2, H272<br>(50 ≤ C < 70) Skin Corr. 1B, H314<br>(70 ≤ C ≤ 100) Ox. Liq. 1, H271<br>(70 ≤ C ≤ 100) Skin Corr. 1A, H314 |
| ACETIC ACID 80% | CAS-No.: 64-19-7<br>EC-No.: 200-580-7<br>EC Index-No.: 607-002-00-6<br>REACH-no: 01-2119475328- | (10 ≤ C < 25) Skin Irrit. 2, H315<br>(10 ≤ C < 25) Eye Irrit. 2, H319<br>(25 ≤ C < 90) Skin Corr. 1B, H314<br>(90 ≤ C ≤ 100) Skin Corr. 1A, H314 |
| peracetic acid . . . % | CAS-No.: 79-21-0<br>EC-No.: 201-186-8<br>EC Index-No.: 607-094-00-8 | (1 ≤ C ≤ 100) STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

### 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. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidiser.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Incompatible materials : combustible materials.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | Acetic acid |
| IOEL TWA | 25 mg/m³ |
| | 10 ppm |
| IOEL STEL | 50 mg/m³ |
| | 20 ppm |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |
| **Ireland - Occupational Exposure Limits** | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m³ |
| | 10 ppm |
| OEL STEL | 50 mg/m³ |
| | 20 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| **Ireland - Occupational Exposure Limits** | |
| Local name | Hydrogen peroxide |
| OEL TWA | 1.5 mg/m³ |
| | 1 ppm |
| OEL STEL | 3 mg/m³ |
| | 2 ppm |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

| peracetic acid . . . % (79-21-0) | |
|---|---|
| **Ireland - Occupational Exposure Limits** | |
| Local name | Peracetic acid |
| OEL STEL | 0.4 ppm IFV (Inhlable Fraction and Vapour) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

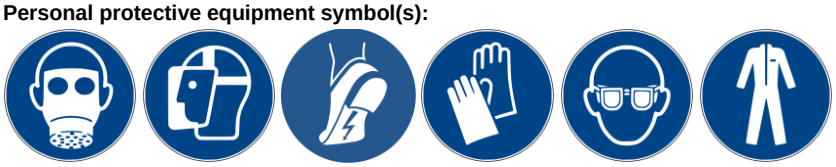
#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment:**
Dust/aerosol mask with filter type P1. Face shield. Use footwear with anti-static or anti-spark features.

**Personal protective equipment symbol(s):**



#### 8.2.2.1. Eye and face protection

**Eye protection:**
Safety glasses

| Eye protection | | | |
|---|---|---|---|
| **Type** | **Field of application** | **Characteristics** | **Standard** |
| Safety glasses, Safety goggles | | With side shields | EN 166 |
| Safety glasses, Safety goggles | Droplet | With side shields | EN 166 |

#### 8.2.2.2. Skin protection

**Skin and body protection:**
Wear suitable protective clothing

**Hand protection:**
Protective gloves

| Hand protection | | | | | |
|---|---|---|---|---|---|
| **Type** | **Material** | **Permeation** | **Thickness (mm)** | **Penetration** | **Standard** |
| Reusable gloves | Nitrile rubber (NBR) | | | | EN ISO 374 |
| Disposable gloves, Reusable gloves | Butyl rubber | 6 (> 480 minutes) | | | EN ISO 374 |

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**
[In case of inadequate ventilation] wear respiratory protection.

| Respiratory protection | | | |
|---|---|---|---|
| **Device** | **Filter type** | **Condition** | **Standard** |
| Reusable half mask, Full face mask | | | EN 14387, EN 136, EN 140 |

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment.

## 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 available |
| Melting point | : | Not applicable |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Not applicable |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | 83 °C |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | < 2 |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Not available |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | Not available |
| Relative density | : | 1.1 |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May intensify fire; oxidiser.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Combustible materials.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| LD50 oral rat | 3310 mg/kg bodyweight Animal: rat, Remarks on results: other: |
| LD50 oral | 4960 mg/kg bodyweight Animal: mouse, Remarks on results: other: |
| LD50 dermal rabbit | 1060 mg/kg Source: HSDB, NITE |
| LC50 Inhalation - Rat [ppm] | 16000 ppm Source: ChemIDPlus |

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| LD50 oral rat | 693.7 mg/kg Source: ECHA |
| LD50 dermal rabbit | 3000 mg/kg Source: ChemIDPlus |
| LC50 Inhalation - Rat | 2000 mg/m³ Source: ChemIDPlus |

| peracetic acid . . . % (79-21-0) | |
|---|---|
| LD50 oral rat | 1540 mg/kg |
| LD50 dermal rabbit | 1410 mg/kg |
| LC50 Inhalation - Rat | 0.45 mg/l |

Skin corrosion/irritation : Causes severe skin burns.
pH: < 2

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| pH | 2.4 Source: ECHA |

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| pH | 5.1 Source: HSDB |

Serious eye damage/irritation : Causes serious eye damage.
pH: < 2

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| pH | 2.4 Source: ECHA |

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| pH | 5.1 Source: HSDB |

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| IARC group | 3 - Not classifiable |

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| NOAEL (oral, rat, 90 days) | 290 mg/kg bodyweight Animal: rat, Animal sex: male |

Aspiration hazard : Not classified

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| Viscosity, kinematic | 1015.385 mm²/s |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| LC50 - Fish [1] | > 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| LC50 - Fish [2] | > 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 1000 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | > 300.82 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): Skeletonema costatum |
| EC50 72h - Algae [2] | > 300.82 mg/l Test organisms (species): Skeletonema costatum |

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| LC50 - Fish [1] | 16.4 mg/l Source: ECHA |
| EC50 72h - Algae [1] | 1.38 mg/l Source: ECHA |
| LOEC (chronic) | 1.25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0.63 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

| peracetic acid . . . % (79-21-0) | |
|---|---|
| LC50 - Fish [1] | 0.08 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 0.73 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 0.16 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | 0.0121 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

### 12.2. Persistence and degradability

| PERACETIC ACID 5% | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| peracetic acid . . . % (79-21-0) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

### 12.3. Bioaccumulative potential

| ACETIC ACID 80% (64-19-7) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0.17 Source: ECHA |

| HYDROGEN PEROXIDE SOLUTION...100% (7722-84-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -1.36 Source: IPCS |

| peracetic acid . . . % (79-21-0) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -1.25 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number** | | | | |
| UN 3149 | UN 3149 | Not regulated | UN 3149 | UN 3149 |
| **14.2. UN proper shipping name** | | | | |
| HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED | HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED | Not regulated | HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED | HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED |
| **Transport document description** | | | | |
| UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, (E) | UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II | Not regulated | UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED, 5.1 (8), II | UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED, 5.1 (8), II |

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.3. Transport hazard class(es)** | | | | |
| 5.1 (8) | 5.1 (8) | Not regulated | 5.1 (8) | 5.1 (8) |
|  |  | Not regulated |  |  |
| **14.4. Packing group** | | | | |
| II | II | Not regulated | II | II |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No<br>Marine pollutant: No | Not regulated | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

## 14.6. Special precautions for user

### Overland transport

| | | |
|---|---|---|
| Classification code (ADR) | : | OC1 |
| Special provisions (ADR) | : | 196, 553 |
| Limited quantities (ADR) | : | 1l |
| Excepted quantities (ADR) | : | E2 |
| Packing instructions (ADR) | : | P504, IBC02 |
| Special packing provisions (ADR) | : | PP10, B5 |
| Mixed packing provisions (ADR) | : | MP15 |
| Portable tank and bulk container instructions (ADR) | : | T7 |
| Portable tank and bulk container special provisions (ADR) | : | TP2, TP6, TP24 |
| Tank code (ADR) | : | L4BV(+) |
| Tank special provisions (ADR) | : | TU3, TC2, TE8, TE11, TT1 |
| Vehicle for tank carriage | : | AT |
| Transport category (ADR) | : | 2 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : | CV24 |
| Hazard identification number (Kemler No.) | : | 58 |
| Orange plates | : |  |
| Tunnel restriction code (ADR) | : | E |



### Transport by sea

| | | |
|---|---|---|
| Special provisions (IMDG) | : | 196 |
| Limited quantities (IMDG) | : | 1 L |
| Excepted quantities (IMDG) | : | E2 |
| Packing instructions (IMDG) | : | P504 |
| Special packing provisions (IMDG) | : | PP10 |
| IBC packing instructions (IMDG) | : | IBC02 |
| IBC special provisions (IMDG) | : | B5 |
| Tank instructions (IMDG) | : | T7 |
| Tank special provisions (IMDG) | : | TP2, TP6, TP24 |
| EmS-No. (Fire) | : | F-H |
| EmS-No. (Spillage) | : | S-Q |
| Stowage category (IMDG) | : | D |
| Stowage and handling (IMDG) | : | SW1 |
| Segregation (IMDG) | : | SGG16, SG16, SG59, SG72 |

| | | |
|---|---|---|
| Properties and observations (IMDG) | : | Colourless liquid. Carried as an aqueous solution. Slowly decomposes, evolving oxygen; the rate of decomposition increases on contact with most metals. In contact with combustible material may cause fire. Causes burns to skin, eyes and mucous membranes. Even though stabilized, these solutions may evolve oxygen. |

**Air transport**

Not regulated

**Inland waterway transport**

| | | |
|---|---|---|
| Classification code (ADN) | : | OC1 |
| Special provisions (ADN) | : | 196, 553 |
| Limited quantities (ADN) | : | 1 L |
| Excepted quantities (ADN) | : | E2 |
| Equipment required (ADN) | : | PP, EP |
| Number of blue cones/lights (ADN) | : | 0 |

**Rail transport**

| | | |
|---|---|---|
| Classification code (RID) | : | OC1 |
| Special provisions (RID) | : | 196, 553 |
| Limited quantities (RID) | : | 1L |
| Excepted quantities (RID) | : | E2 |
| Packing instructions (RID) | : | P504, IBC02 |
| Special packing provisions (RID) | : | PP10, B5 |
| Mixed packing provisions (RID) | : | MP15 |
| Portable tank and bulk container instructions (RID) | : | T7 |
| Portable tank and bulk container special provisions (RID) | : | TP2, TP6, TP24 |
| Tank codes for RID tanks (RID) | : | L4BV(+) |
| Special provisions for RID tanks (RID) | : | TU3, TC2, TE8, TE11, TT1 |
| Transport category (RID) | : | 2 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : | CW24 |
| Colis express (express parcels) (RID) | : | CE6 |
| Hazard identification number (RID) | : | 58 |

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**ANNEX I RESTRICTED EXPLOSIVES PRECURSORS**

List of substances which are not to be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

| Name | CAS-No. | Limit value | Upper limit value for licensing under Article 5(3) | Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|---|---|---|---|---|---|
| Hydrogen peroxide | 7722-84-1 | 12 % w/w | 35% w/w | 2847 00 00 | ex 3824 99 96 |

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |

| Abbreviations and acronyms: | |
|---|---|
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), 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 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H242 | Heating may cause a fire. |
| H271 | May cause fire or explosion; strong oxidiser. |
| H272 | May intensify fire; oxidiser. |
| H302 | Harmful if swallowed. |

| Full text of H- and EUH-statements: | |
|---|---|
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| 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. |
| Org. Perox. D | Organic Peroxides, Type D |
| Ox. Liq. 1 | Oxidising Liquids, Category 1 |
| Ox. Liq. 2 | Oxidising Liquids, Category 2 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.