

Hydrogen peroxide 35%

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/06/2022 Version: 0.0

Doc. No: SDS-932.122/2



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

1.1. Product identifier

Product form : Mixture
Product name : Hydrogen peroxide 35%
Type of product : Solution

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Bleaching agent
Disinfectant
Chemical raw material
Laboratory chemicals
Waste water treatment
Electronics
Metal working fluids
Textile industry
Oxidising agents
Odour agents

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH
Am Dillhof 2 - 63863 Eschau / GERMANY
Tel: + 49 93 74 / 978 55-0
Fax: +49 93 74 / 978 55-29
prodsafe@isolab.de

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Remark |
|---------|---|-----------------------------------|------------------|--------|
| Germany | Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), UG | Hindenburgdamm 30 12203 Berlin | +49 30 19240 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] with its amendment Regulation (EU) 2016/1179

Acute Tox. 4 (Oral) H302
Eye Dam. 1 H318
Skin Irrit. 2 H315
STOT SE 3 H335

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

Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed.
H315 - Causes skin irritation
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 - Get medical advice/ attention.

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2.3. Other hazards

No additional information available.

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] with its amendment Regulation (EU) 2016/1179 |
|-------------------|--|----|--|
| hydrogen peroxide | (CAS-No.) 7722-84-1 (EC-No.) 231-765-0 (EC Index-No.) 008-003-00-9 | 35 | Ox. Liq. 1, H271 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|-------------------|--|---|
| hydrogen peroxide | (CAS-No.) 7722-84-1 (EC-No.) 231-765-0 (EC Index-No.) 008-003-00-9 | (5 =<C < 8) Eye Irrit. 2, H319 (8 =<C < 50) Eye Dam. 1, H318 (35 =<C < 50) Skin Irrit. 2, H315 (C >= 35) STOT SE 3, H335 (50 =<C < 70) Ox. Liq. 2, H272 (50 =<C < 70) Skin Corr. 1B, H314 (C >= 70) Ox. Liq. 1, H271 (C >= 70) Skin Corr. 1A, H314 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. |
| First-aid measures after inhalation | : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. |
| First-aid measures after skin contact | : Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists. Take victim to a doctor/medical service if irritation persists. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist. Consult a doctor/medical service. |
| First-aid measures after ingestion | : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Do not give chemical antidote. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. ON CONTINUOUS EXPOSURE/CONTACT: Risk of lung oedema. Respiratory difficulties. |
| Symptoms/effects after skin contact | : Tingling/irritation of the skin. |
| Symptoms/effects after eye contact | : Corrosion of the eye tissue. Inflammation/damage of the eye tissue. |
| Symptoms/effects after ingestion | : Gastrointestinal complaints. |
| Chronic symptoms | : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry/sore throat. Irritation of the eye tissue. |

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

No additional information available.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment for surrounding fires.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Cool from behind cover/unmanned monitors. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Protective clothing.

Emergency procedures : Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes. In case of reactivity hazard: consider evacuation.

6.1.2. For emergency responders

No additional information available.

6.2. Environmental precautions

Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill.

Methods for cleaning up : Take up liquid spill into a non combustible material e.g.: sand. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle and open the container with care. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain.

Hygiene measures : Observe normal hygiene standards. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. reducing agents. (strong) acids. (strong) bases. oils-fats. highly flammable materials. metals. organic materials. alcohols.

Storage area : Store in a cool area. Keep out of direct sunlight. Store in a dark area. Keep container in a well-ventilated place. Fireproof storeroom. Keep locked up. Provide for a tub to collect spills. Under a shelter/in the open. Keep only in the original container. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. nonhermetical. with pressure relief valve. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: stainless steel. aluminium. polyethylene. glass. stoneware/porcelain. MATERIAL TO AVOID: monel steel. iron. copper. zinc. lead. nickel. brass. bronze.

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7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Hydrogen peroxide solution, 35% | | |
|---------------------------------|--|--|
| EU | Local name | Hydrogen peroxide |
| EU | Notes | (Ongoing) |
| EU | Regulatory reference | SCOEL Recommendations |
| Austria | Local name | Wasserstoffperoxid |
| Austria | MAK (mg/m ³) | 1.4 mg/m ³ |
| Austria | MAK (ppm) | 1 ppm |
| Austria | MAK Short time value (mg/m ³) | 2.8 mg/m ³ |
| Austria | MAK Short time value (ppm) | 2 ppm |
| Austria | Regulatory reference | BGBl. II Nr. 186/2015 |
| Belgium | Local name | Hydrogène (peroxyde d') # Waterstofperoxide |
| Belgium | Limit value (mg/m ³) | 1.4 mg/m ³ |
| Belgium | Limit value (ppm) | 1 ppm |
| Belgium | Regulatory reference | Koninklijk besluit/Arrêté royal 11/03/2002 |
| Bulgaria | Local name | Водороден пероксид |
| Bulgaria | OEL TWA (mg/m ³) | 1.5 mg/m ³ |
| Bulgaria | Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа |
| Croatia | Local name | Vodikov peroksid |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 1.4 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (ppm) | 1 ppm |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 2.8 mg/m ³ |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (ppm) | 2 ppm |
| Croatia | Naznake (HR) | O (oksidirajuće); C (nagrizajuće) |
| Croatia | Regulatory reference | Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13) |
| Czech Republic | Local name | Peroxid vodíku |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 1 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 0.72 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 2 mg/m ³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 1.44 ppm |
| Czech Republic | Remark (CZ) | I (dráždí sliznice (oči, dýchací cesty) resp. kůži) |
| Czech Republic | Regulatory reference | Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 93/2012 Sb., 9/2013 Sb.) |
| Denmark | Local name | Hydrogenperoxid (Brintoverilte) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 1.4 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 1 ppm |
| Denmark | Regulatory reference | BEK nr 986 af 11/10/2012 |
| Estonia | Local name | Vesinikperoksiid |
| Estonia | OEL TWA (mg/m ³) | 1.4 mg/m ³ |
| Estonia | OEL TWA (ppm) | 1 ppm |
| Estonia | OEL Ceiling (mg/m ³) | 3 mg/m ³ |
| Estonia | OEL Ceiling (ppm) | 2 ppm |

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| Hydrogen peroxide solution, 35% | | |
|---------------------------------|--|---|
| Estonia | Regulatory reference | Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 |
| Finland | Local name | Vetyperoksidi |
| Finland | HTP-arvo (8h) (mg/m ³) | 1.4 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 1 ppm |
| Finland | HTP-arvo (15 min) | 4.2 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 3 ppm |
| Finland | Regulatory reference | HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö) |
| France | Local name | Peroxyde d'hydrogène (Eau oxygénée) |
| France | VME (mg/m ³) | 1.5 mg/m ³ |
| France | VME (ppm) | 1 ppm |
| France | Note (FR) | Valeurs recommandées/admises |
| France | Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| Greece | OEL TWA (mg/m ³) | 1.4 mg/m ³ |
| Greece | OEL TWA (ppm) | 1 ppm |
| Greece | OEL STEL (mg/m ³) | 3 mg/m ³ |
| Ireland | Local name | Hydrogen peroxide |
| Ireland | OEL (8 hours ref) (mg/m ³) | 1.5 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 1 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 3 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 2 ppm |
| Ireland | Regulatory reference | Code of Practice for the Chemical Agents Regulations 2016 |
| Lithuania | Local name | Vandenilio peroksidas |
| Lithuania | IPRV (mg/m ³) | 1.4 mg/m ³ |
| Lithuania | IPRV (ppm) | 1 ppm |
| Lithuania | NRV (mg/m ³) | 3 mg/m ³ |
| Lithuania | NRV (ppm) | 2 ppm |
| Lithuania | Remark (LT) | Ū (ūmus poveikis) |
| Lithuania | Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 |
| Poland | Local name | Nadtlenek wodoru |
| Poland | NDS (mg/m ³) | 0.4 mg/m ³ |
| Poland | NDSch (mg/m ³) | 0.8 mg/m ³ |
| Poland | Regulatory reference | Dz. U. 2017 poz. 1348 |
| Portugal | Local name | Peróxido de hidrogénio |
| Portugal | OEL TWA (ppm) | 1 ppm |
| Portugal | Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Slovakia | Local name | Peroxid vodíka |
| Slovakia | NPHV (priemerná) (mg/m ³) | 1.4 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 1 ppm |
| Slovakia | OEL STEL (mg/m ³) | 2.8 mg/m ³ |
| Slovakia | OEL STEL (ppm) | 2 ppm |
| Slovakia | Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (Zmena: 300/2007 Z.z.; Zmena: 471/2011 Z.z.) |
| Slovenia | Local name | vodikov peroksid |
| Slovenia | OEL TWA (mg/m ³) | 1.4 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 1 ppm |
| Slovenia | KTV factor SL | 1 |
| Slovenia | Regulatory reference | Uradni list RS, št. 102/2010 z dne 17.12.2010 |

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| Hydrogen peroxide solution, 35% | | |
|----------------------------------|---|---|
| Spain | Local name | Peróxido de hidrógeno |
| Spain | VLA-ED (mg/m ³) | 1.4 mg/m ³ |
| Spain | VLA-ED (ppm) | 1 ppm |
| Spain | Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT |
| Sweden | Local name | Väteperoxid |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 1.4 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 1 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 3 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 2 ppm |
| Sweden | Regulatory reference | Hygieniska gränsvärden (AFS 2015:7) |
| United Kingdom | Local name | Hydrogen peroxide |
| 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 |
| United Kingdom | Regulatory reference | EH40. HSE |
| Iceland | Local name | Vetnisperoxíð |
| Iceland | OEL (8 hours ref) (mg/m ³) | 1.4 mg/m ³ |
| Iceland | OEL (8 hours ref) (ppm) | 1 ppm |
| Iceland | Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |
| Norway | Local name | Hydrogenperoksid |
| Norway | Grenseverdier (AN) (mg/m ³) | 1.4 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 1 ppm |
| Norway | Regulatory reference | Arbeidstilsynet. Forskrift, best.nr. 704 |
| Switzerland | Local name | Wasserstoffperoxid |
| Switzerland | MAK (mg/m ³) | 0.71 mg/m ³ |
| Switzerland | MAK (ppm) | 0.5 ppm |
| Switzerland | KZGW (mg/m ³) | 0.71 mg/m ³ |
| Switzerland | KZGW (ppm) | 0.5 ppm |
| Switzerland | Remark (CH) | SS _C - Auge & Haut & OAW, Asthma - DFG, OSHA |
| Switzerland | Regulatory reference | SUVA - Grenzwerte am Arbeitsplatz 2016 |
| Australia | Local name | Hydrogen peroxide |
| Australia | TWA (mg/m ³) | 1.4 mg/m ³ |
| Australia | TWA (ppm) | 1 ppm |
| USA - ACGIH | Local name | Hydrogen peroxide |
| USA - ACGIH | ACGIH TWA (ppm) | 1 ppm |
| USA - ACGIH | Remark (ACGIH) | Eye, URT, & skin irr |
| USA - ACGIH | Regulatory reference | ACGIH 2017 |
| USA - OSHA | Local name | Hydrogen peroxide |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 1.4 mg/m ³ |
| USA - OSHA | OSHA PEL (TWA) (ppm) | 1 ppm |
| hydrogen peroxide solution ... % | | |
| EU | Local name | Hydrogen peroxide |
| EU | Notes | (Ongoing) |
| EU | Regulatory reference | SCOEL Recommendations |

8.2. Exposure controls

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Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: nitrile rubber. GIVE GOOD RESISTANCE: natural rubber. nitrile rubber. butyl rubber. polyethylene. PVC. viton.
GIVE LESS RESISTANCE: neoprene. polyethylene/ethylenevinylalcohol. GIVE POOR RESISTANCE: leather. PVA. natural fibres

Hand protection:

Gloves

Eye protection:

Face shield. Safety goggles

Skin and body protection:

Protective clothing. If splashes are likely to occur: Boots. Polyvinylchloride (PVC). Natural rubber

Respiratory protection:

Full face mask with filter type B at conc. in air > exposure limit

| Device | Filter type | Condition | Standard |
|----------------------------|---------------------------------------|----------------------------------|----------|
| Full face piece respirator | Type NO P3 (white), Type NO P3 (blue) | If conc. in air > exposure limit | |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Molecular mass | : Not applicable |
| Colour | : Colourless. |
| Odour | : Irritating/pungent odour. |
| Odour threshold | : No data available. |
| pH | : 1 - 4 |
| Relative evaporation rate (butylacetate=1) | : No data available. |
| Melting point | : -33 °C |
| Freezing point | : No data available. |
| Boiling point | : 108 °C |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available. |
| Flammability (solid, gas) | : No data available. |
| Vapour pressure | : 12 hPa (20 °C, %50 H ₂ O ₂) |
| Relative vapour density at 20 °C | : No data available. |
| Relative density | : 1.13 g/cm ³ (20 °C) |
| Density | : 1.13 g/cm ³ (20 °C) |
| Solubility | : Soluble in water. Soluble in ethanol. Soluble in ether. Water: complete |
| Log Pow | : -1.1 |
| Viscosity, kinematic | : No data available. |
| Viscosity, dynamic | : 1.249 mPa·s (20 °C, Pure substance) |
| Explosive properties | : No data available. |
| Oxidising properties | : No data available. |
| Explosive limits | : No data available. |

9.2. Other information

| | |
|-------------------------|---|
| Minimum ignition energy | : Not applicable |
| VOC content | : Not applicable (inorganic) |
| Other properties | : Clear. Physical properties depending on the concentration. Substance has acid reaction. |

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SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes slowly on exposure to light: oxidation resulting in increased fire or explosion risk with pressure rise and possible bursting of container. This reaction is accelerated on exposure to impurities and on exposure to temperature rise. Reacts violently with combustible materials: risk of spontaneous ignition. Violent to explosive reaction with many compounds e.g. (some) metals and their compounds, (some) acids/bases, organic material, oxygen compounds, (strong) reducers and (some) metal powders: (increased) risk of fire. Reacts violently with oils/fats.

10.2. Chemical stability

Unstable on exposure to heat. Unstable on exposure to light.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

No additional information available.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

No additional information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| | |
|--------------------|----------------------|
| ATE CLP (oral) | 500 mg/kg bodyweight |
| LD50 oral rat | 1232 mg/kg |
| LD50 dermal rabbit | > 2.000 mg/kg |

Skin corrosion/irritation : Causes skin irritation.
pH: 2.02 (50 %, 21 °C)

Serious eye damage/irritation : Causes serious eye damage.
pH: 2.02 (50 %, 21 °C)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Harmful if swallowed. Causes skin irritation. May cause respiratory irritation. Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology - air : None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : Toxic to crustacea. Harmful to fishes. Toxic to algae. pH shift.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

| | |
|--|-----------------------------------|
| Hydrogen peroxide solution, 35% | |
| Persistence and degradability | Biodegradability: not applicable. |

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| Hydrogen peroxide solution, 35% | |
|---------------------------------|----------------|
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

| Hydrogen peroxide solution, 35% | |
|---------------------------------|----------------------|
| Log Pow | -1.1 |
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

| Hydrogen peroxide solution, 35% | |
|---------------------------------|--|
| Surface tension | 80.4 mN/m (20 °C, Pure substance, Calculated value, 100 %) |
| Ecology - soil | No (test)data on mobility of the components available. |

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional legislation (waste) | : LWCA (the Netherlands): KGA category 01. |
| Product/Packaging disposal recommendations | : Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. |
| Additional information | : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. |
| European List of Waste (LoW) code | : 15 01 10* - packaging containing residues of or contaminated by dangerous substances 16 03 03* - inorganic wastes containing dangerous substances |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---|--|--|--|
| 14.1. UN number | | | | |
| 2014 | 2014 | 2014 | 2014 | 2014 |
| 14.2. UN proper shipping name | | | | |
| Hydrogen peroxide, aqueous solution | hydrogen peroxide, aqueous solution | Hydrogen peroxide, aqueous solution | Hydrogen peroxide, aqueous solution | Hydrogen peroxide, aqueous solution |
| Transport document description | | | | |
| UN 2014 Hydrogen peroxide, aqueous solution, 5.1 (8), II, (E) | UN 2014 hydrogen peroxide, aqueous solution, 5.1 (8), II | UN 2014 Hydrogen peroxide, aqueous solution, 5.1 | UN 2014 Hydrogen peroxide, aqueous solution, 5.1 (8), II | UN 2014 Hydrogen peroxide, aqueous solution, 5.1 (8), II |
| 14.3. Transport hazard class(es) | | | | |
| 5.1 (8) | 5.1 (8) | 5.1 (8) | 5.1 (8) | 5.1 (8) |
| | | Not applicable | | |
| 14.4. Packing group | | | | |
| II | II | Not applicable | II | II |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

Hydrogen peroxide 35%

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| ADR | IMDG | IATA | ADN | RID |
|--|------|------|-----|-----|
| No supplementary information available | | | | |

14.6. Special precautions for user

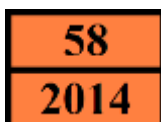
- Overland transport

Transport regulations (ADR) : Subject

Classification code (ADR) : OC1

Hazard identification number (Kemler No.) : 58

Orange plates :



Tunnel restriction code (ADR) : E

EAC code : 2P

- Transport by sea

Transport regulations (IMDG) : Subject

EmS-No. (Fire) : F-H

EmS-No. (Spillage) : S-Q

- Air transport

Transport regulations (IATA) : Forbidden

- Inland waterway transport

Classification code (ADN) : OC1

Carriage permitted (ADN) : T

- Rail transport

Transport regulations (RID) : Subject

Classification code (RID) : OC1

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| | |
|--|--|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | hydrogen peroxide solution ... % |
| 3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F | hydrogen peroxide solution ... % |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Hydrogen peroxide solution, 35% - hydrogen peroxide solution ... % |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : Not applicable (inorganic)

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to waters (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Hydrogen peroxide 35%

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Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available.

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 |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| PBT | Persistent Bioaccumulative Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:

| | |
|---------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Ox. Liq. 1 | Oxidising Liquids, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H271 | May cause fire or explosion; strong oxidiser. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |

SDS ISOLAB (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