# Safety Data Sheet

*According to Regulation (EC) No 1907/2006*

## Divosan Forte VT6

**Revision:** 2025-05-19 **Version:** 09.0

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

### 1.1 Product identifier

**Trade name:** Divosan Forte VT6

UFI: G6H4-90Q9-S001-WV24

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

| | |
|---|---|
| **Product use:** | Cleaning in place chemical.<br>Surface disinfectant.<br>for general surface disinfection<br>for food contact surface disinfection<br>For professional and industrial use only. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
AISE_SWED_PW_8b_1
AISE_SWED_IS_8b_1
AISE_SWED_PW_1_1
AISE_SWED_PW_4_1
AISE_SWED_IS_1_1
AISE_SWED_IS_4_1

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

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@solenis.com

### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Organic peroxides, Type F (H242)
Skin corrosion, Category 1A (H314)
Acute toxicity - Oral, Category 4 (H302)
Acute toxicity - Dermal, Category 4 (H312)
Acute toxicity - Inhalation, Category 4 (H332)
Specific target organ toxicity - Single exposure, Category 3 (H335)
Serious eye damage, Category 1 (H318)
Chronic aquatic toxicity, Category 1 (H410)
Corrosive to metals, Category 1 (H290)

### 2.2 Label elements

**Signal word:** Danger.

Contains Hydrogen peroxide (Hydrogen Peroxide), acetic acid (Acetic Acid), Peracetic acid (Peracetic Acid)

**Hazard statements:**
H242 - Heating may cause a fire.

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.
H335 - May cause respiratory irritation.

**Precautionary statements:**
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 - Keep only in original packaging.
P260 - Do not breathe vapours.
P280 - Wear protective gloves, protective clothing and eye or 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 CENTRE, doctor or physician.
P403 + P235 - Store in a well-ventilated place. Keep cool.

**2.3 Other hazards**
Regulation (EU) 2019/1148 - restricted explosives precursor.

Regulated explosives precursor - Control of Poisons and Explosives Precursors Regulations 2015

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | 231-765-0 | 7722-84-1 | [6] | Oxidising liquids, Category 1 (H271)<br>Skin corrosion, Category 1A (H314)<br>Acute toxicity - Oral, Category 4 (H302)<br>Acute toxicity - Inhalation, Category 4 (H332)<br>Specific target organ toxicity - Single exposure, Category 3 (H335)<br>Chronic aquatic toxicity, Category 3 (H412) | | 20-30 |
| acetic acid | 200-580-7 | 64-19-7 | 01-2119475328-30 | Flammable liquids, Category 3 (H226)<br>Skin corrosion, Category 1A (H314) | | 10-20 |
| Peracetic acid | 201-186-8 | 79-21-0 | [6] | Organic peroxides, Type D (H242)<br>Flammable liquids, Category 3 (H226)<br>Skin corrosion, Category 1A (H314)<br>Acute toxicity - Oral, Category 4 (H302)<br>Acute toxicity - Dermal, Category 4 (H312)<br>Acute toxicity - Inhalation, Category 4 (H332)<br>Specific target organ toxicity - Single exposure, Category 3 (H335)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 1 M=10 (H410) | | 10-20 |

**Specific concentration limits**
Hydrogen peroxide:
• Serious eye damage, Category 1 (H318) >= 8% > Eye irritation, Category 2 (H319) >= 5%
• Skin corrosion, Category 1A (H314) >= 70% > Skin corrosion, Category 1B (H314) >= 50% > Skin irritation, Category 2 (H315) >= 35%
• Specific target organ toxicity - Single exposure, Category 3 (H335) >= 35%
acetic acid:
• Serious eye damage, Category 1 (H318) >= 25% > Eye irritation, Category 2 (H319) >= 10%
• Skin corrosion, Category 1A (H314) >= 90% > Skin corrosion, Category 1B (H314) >= 25% > Skin irritation, Category 2 (H315) >= 10%
Peracetic acid:
• Specific target organ toxicity - Single exposure, Category 3 (H335) >= 1%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General Information:** Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE, doctor or physician.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Wash skin with

| | |
|---|---|
| | plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. If skin irritation occurs: Get medical advice or attention. |
| **Eye contact:** | Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician. |
| **Ingestion:** | Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician. Get medical attention or advice if you feel unwell. |
| **Self-protection of first aider:** | Consider personal protective equipment as indicated in subsection 8.2. |

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

| | |
|---|---|
| **Inhalation:** | Corrosive to the respiratory tract. |
| **Skin contact:** | Causes severe burns. |
| **Eye contact:** | Causes severe or permanent damage. |
| **Ingestion:** | Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach. |

**4.3 Indication of any immediate medical attention and special treatment needed**
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**
Water spray jet. Do not use carbon dioxide, extinguishing powder or foam.

**5.2 Special hazards arising from the substance or mixture**
Cool endangered packaging with water spray jet.

**5.3 Advice for firefighters**
As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

**6.2 Environmental precautions**
Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**6.3 Methods and material for containment and cleaning up**
Ensure adequate ventilation. Dyke to collect large liquid spills. Absorb onto dry sand or similar inert material. Do not use fabric, sawdust, paper or other inflammable materials (danger of spontaneous combustion). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
**Measures to prevent fire and explosions:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use non-sparking tools. Keep away from heat.
**Measures required to protect the environment:**
For environmental exposure controls see subsection 8.2.
**Advice on general occupational hygiene:**
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe vapours. Do not eat, drink or smoke when using this product. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a well-ventilated place. Store in a closed container. Keep only in original packaging. Keep from freezing. Keep away from heat and direct sunlight. Keep at temperature not exceeding 30 °C.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Comah - Lower Tier requirements (tonnes): 50
Comah - Upper Tier requirements (tonnes): 200

**7.3 Specific end use(s)**
No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**
**Workplace exposure limits**

Air limit values, if available:

| Ingredient(s) | UK - Long term value(s) | UK - Short term value(s) |
|---|---|---|
| Hydrogen peroxide | 1 ppm<br>1.4 mg/m³ | 2 ppm<br>2.8 mg/m³ |
| acetic acid | 10 ppm<br>25 mg/m³ | 20 ppm<br>50 mg/m³ |

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

**Additional exposure limits under the conditions of use, if available:**

**DNEL/DMEL and PNEC values**
**Human exposure**
DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| Hydrogen peroxide | - | - | - | - |
| acetic acid | - | - | - | - |
| Peracetic acid | - | 1.25 | - | 1.25 |

DNEL/DMEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| Hydrogen peroxide | - | - | - | - |
| acetic acid | - | - | - | - |
| Peracetic acid | 0.12 % | - | - | - |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| Hydrogen peroxide | - | - | - | - |
| acetic acid | - | - | - | - |
| Peracetic acid | 0.12 % | - | - | - |

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| Hydrogen peroxide | 3 | - | 1.4 | - |
| acetic acid | 25 | - | 25 | - |
| Peracetic acid | 0.6 | 0.6 | 0.6 | 0.6 |

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| Hydrogen peroxide | 1.93 | - | 0.21 | - |
| acetic acid | 25 | - | 25 | - |
| Peracetic acid | 0.3 | 0.6 | 0.6 | 0.6 |

**Environmental exposure**
Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|---|---|---|---|
| Hydrogen peroxide | 0.0126 | 0.0126 | 0.0138 | 4.66 |
| acetic acid | 3.058 | 0.3058 | 30.58 | 85 |
| Peracetic acid | 0.000224 | 0.0000049 | 0.0016 | 0.051 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Hydrogen peroxide | 0.047 | 0.047 | 0.0023 | - |
| acetic acid | 11.36 | 1.136 | 0.47 | - |
| Peracetic acid | 0.00018 | 0.000015 | 0.320 | - |

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.*
*If available, please refer to the product information sheet for application and handling instructions.*
*Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**REACH use scenarios considered for the undiluted product:**

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| Automatic transfer and dilution | AISE_SWED_IS_8b_1 | IS | PROC 8b | 60 | ERC4 |
| Automatic transfer and dilution | AISE_SWED_PW_8b_1 | PW | PROC 8b | 60 | ERC8b |

**Personal protective equipment**
**Eye / face protection:** Safety glasses or goggles (EN 16321). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.
**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).
**Respiratory protection:** If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) or full-face mask (EN 136) with particle filter P2 (EN 143) In case of insufficient ventilation: full-face mask (EN 136) with filter type ABEK-P2 (EN 14387) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (% w/w):** 2

**Appropriate engineering controls:** Provide a good standard of general ventilation.
**Appropriate organisational controls:** No special requirements under normal use conditions.

**REACH use scenarios considered for the diluted product:**

| | SWED | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| Automatic application in a dedicated closed system | AISE_SWED_IS_1_1 | IS | PROC 1 | 480 | ERC4 |
| Automatic application in a dedicated system | AISE_SWED_IS_4_1 | IS | PROC 4 | 480 | ERC8a |
| Automatic application in a dedicated closed system | AISE_SWED_PW_1_1 | PW | PROC 1 | 480 | ERC8a |
| Automatic application in a dedicated system | AISE_SWED_PW_4_1 | PW | PROC 4 | 480 | ERC8a |

**Personal protective equipment**
**Eye / face protection:** No special requirements under normal use conditions.
**Hand protection:** No special requirements under normal use conditions.
**Body protection:** No special requirements under normal use conditions.
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**Information in this section refers to the product, unless it is specifically stated that substance data is listed**

| | Method / remark |
|---|---|
| **Physical state:** Liquid | |
| **Colour:** Clear , Colourless | |
| **Odour:** To Match Standard (TMS) | |
| **Odour threshold:** Not applicable | |
| **Melting point/freezing point (°C):** -30 | N.A. |
| **Initial boiling point and boiling range (°C):** Not determined | See substance data |

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| Hydrogen peroxide | 150.2 | Method not given | |
| acetic acid | 103 | Method not given | |
| Peracetic acid | No data available | | |

| | Method / remark |
|---|---|
| **Flammability (solid, gas):** Not applicable to liquids | |
| **Flammability (liquid):** Not flammable. | |
| **Flash point (°C):** > 67 °C | closed cup |
| **Sustained combustion:** Not applicable. | |
| *( UN Manual of Tests and Criteria, section 32, L.2 )* | |
| **Lower and upper explosion limit/flammability limit (%):** Not determined | See substance data |

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|---|---|---|
| acetic acid | 4 | 17 |

| | Method / remark |
|---|---|
| **Autoignition temperature:** Not determined | |
| **Decomposition temperature:** > 55 (°C) SADT (self-accelerating decomposition temperature) | |
| **pH:** =< 2 (neat) | ISO 4316 |
| **Dilution pH:** ≈ 3 (2 %) | ISO 4316 |
| **Kinematic viscosity:** Not determined | |
| **Solubility in / Miscibility with water:** Fully miscible | |

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| Hydrogen peroxide | 1000 | Method not given | 20 |
| acetic acid | Soluble | Method not given | |
| Peracetic acid | No data available | | |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

| | Method / remark |
|---|---|
| **Vapour pressure:** Not determined | See substance data |

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|---|---|---|
| Hydrogen peroxide | 214 | Method not given | 20 |
| acetic acid | 1500 | Method not given | 20 |
| Peracetic acid | No data available | | |

| | Method / remark |
|---|---|
| **Relative density:** ≈ 1.15 (20 °C) | OECD 109 (EU A.3) |
| **Relative vapour density:** No data available. | Not relevant to classification of this product |
| **Particle characteristics:** No data available. | Not applicable to liquids. |

**9.2 Other information**
**9.2.1 Information with regard to physical hazard classes**
**Explosive properties:** Not explosive.
**Oxidising properties:** Not oxidising. Weight of evidence
**Corrosion to metals:** Corrosive

**9.2.2 Other safety characteristics**
No other relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**
No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**
Heating may cause a fire. To avoid thermal decomposition, do not overheat.

**10.5 Incompatible materials**
May be corrosive to metals. Reacts with alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

**10.6 Hazardous decomposition products**
Oxygen.

## SECTION 11: Toxicological information

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

Mixture data: .

**Acute dermal toxicity**
**LD50 Dermal** > 1000-2000 **Species** Rat **Method** Weight of evidence
**Acute inhalation toxicity**
**LC50 (Dust/Mist)** > 1-<5 **Method** Weight of evidence

**Relevant calculated ATE(s):**
ATE - Oral (mg/kg): 1300
ATE - Inhalatory, mists (mg/l): 1.5

Substance data, where relevant and available, are listed below:.

**Acute toxicity**
Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Oral (mg/kg) |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | $LD_{50}$ | > 300-2000 | Rat | Weight of evidence | | 2100 |
| acetic acid | $LD_{50}$ | 3310 | Rat | Weight of evidence | | 3310 |
| Peracetic acid | $LD_{50}$ | 80 | Rat | ATE - Acute Toxicity Estimate | | 3300 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | $LD_{50}$ | > 2000 | Rabbit | Substance was tested as 35 % aqueous solution | | Not established |
| acetic acid | | No data available | | | | Not established |
| Peracetic acid | $LD_{50}$ | 50-2000 | Rabbit | EPA OPP 81-2 Substance was tested as 5 % aqueous solution | | 7300 |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Hydrogen peroxide | $LC_{0}$ | No mortality observed (vapour) | Rat | Method not given | 4 |
| acetic acid | $LC_{50}$ | > 40 | Rat | Weight of evidence | 4 |
| Peracetic acid | $LC_{50}$ | > 0.05-0.5 | Rat | EPA OPP 81-3 | |

| | | | | | |
|---|---|---|---|---|---|
| | | (dust) (mist) | | Substance was tested as 5 % aqueous solution | |

Acute inhalative toxicity, continued

| Ingredient(s) | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|---|---|---|---|---|
| Hydrogen peroxide | Not established | Not established | 11 | Not established |
| acetic acid | Not established | Not established | Not established | Not established |
| Peracetic acid | Not established | Not established | 4 | Not established |

### Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Hydrogen peroxide | Corrosive | Rabbit | Method not given | |
| acetic acid | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| Peracetic acid | Corrosive | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Hydrogen peroxide | Corrosive | Rabbit | Method not given | |
| acetic acid | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| Peracetic acid | Corrosive | Rabbit | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Hydrogen peroxide | Irritating to respiratory tract | | Method not given | |
| acetic acid | No data available | | | |
| Peracetic acid | Irritating to respiratory tract | Rat | Method not given | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| Hydrogen peroxide | Not sensitising | Guinea pig | Method not given | |
| acetic acid | Not sensitising | | Method not given | |
| Peracetic acid | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Hydrogen peroxide | No data available | | | |
| acetic acid | No data available | | | |
| Peracetic acid | No data available | | | |

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|---|---|---|---|
| Hydrogen peroxide | No evidence for mutagenicity | OECD 471 (EU B.12/13) | No evidence of genotoxicity, negative test results | Method not given |
| acetic acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available | |
| Peracetic acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No evidence for mutagenicity, negative test results | Method not given |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| Hydrogen peroxide | No evidence for carcinogenicity, negative test results |
| acetic acid | No evidence for carcinogenicity, negative test results |
| Peracetic acid | No evidence for carcinogenicity, negative test results |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| Hydrogen peroxide | | | No data available | | | | No evidence for reproductive toxicity |
| acetic acid | | | No data available | | | | No evidence for reproductive toxicity |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Peracetic acid | NOAEL | | 200 | Rat | Not known | | |

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | NOAEL | 100 | Mouse | OECD 408 (EU B.26) | 90 | |
| acetic acid | | No data available | | | | |
| Peracetic acid | NOAEL | 23.4 | Rat | Weight of evidence | 90 | No adverse effects observed |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | | |
| acetic acid | | No data available | | | | |
| Peracetic acid | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | NOAEL | 7 | Mouse | OECD 413 (EU B.29) | 28 | |
| acetic acid | | No data available | | | | |
| Peracetic acid | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|---|---|---|---|---|---|---|---|
| Hydrogen peroxide | | | No data available | | | | | |
| acetic acid | | | No data available | | | | | |
| Peracetic acid | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| Hydrogen peroxide | No data available |
| acetic acid | No data available |
| Peracetic acid | Not applicable |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| Hydrogen peroxide | No data available |
| acetic acid | No data available |
| Peracetic acid | No data available |

**Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**

No other relevant information available.

## SECTION 12: Ecological information

**12.1 Toxicity**

No data is available on the mixture .

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Hydrogen peroxide | $LC_{50}$ | 16.4 | *Pimephales promelas* | EPA-OPPTS 850.1075 | 96 |
| acetic acid | $LC_{50}$ | 75 | *Lepomis macrochirus* | Method not given | 96 |
| Peracetic acid | $LC_{50}$ | 13 | *Fish* | OECD 203, semi-static | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Hydrogen peroxide | $EC_{50}$ | 2.4 | *Daphnia pulex* | Method not given | 48 |
| acetic acid | $EC_{50}$ | 95 | *Daphnia magna Straus* | Method not given | 24 |
| Peracetic acid | $EC_{50}$ | 0.73-3.3 | *Daphnia magna Straus* | OECD 202 (EU C.2) | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Hydrogen peroxide | $EC_{50}$ | 1.38 | *Skeletonema costatum (marine)* | OECD 201 (EU C.3) | 72 |
| acetic acid | $EC_{50}$ | 300.82 | *Not specified* | Method not given | 72 |
| Peracetic acid | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| Hydrogen peroxide | $ErC_{50}$ | 1.38 | *Skeletonema costatum* | Method not given | 72 |
| acetic acid | | No data available | | | |
| Peracetic acid | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| Hydrogen peroxide | $EC_{50}$ | 466 | *Activated sludge* | Method not given | |
| acetic acid | $EC_{10}$ | 1000 | *Pseudomonas putida* | Method not given | 0.5 hour(s) |
| Peracetic acid | | No data available | | | |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | NOEC | 4.3 | *Pimephales promelas* | Method not given | 96 hour(s) | |
| acetic acid | | No data available | | | | |
| Peracetic acid | NOEC | 0.00094 | *Brachydanio rerio* | OECD 210 | 33 day(s) | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | NOEC | 0.63 | *Daphnia magna* | Method not given | 21 day(s) | |
| acetic acid | | No data available | | | | |
| Peracetic acid | NOEC | 0.0121 | *Daphnia magna* | Method not given | 33 day(s) | |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | | |
| acetic acid | | No data available | | | | |
| Peracetic acid | | No data available | | | | |

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | | |

**12.2 Persistence and degradability**

**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|
| Hydrogen peroxide | 24 hour(s) | Method not given | OH radical | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|---|---|---|---|
| Hydrogen peroxide | No data available | | | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| Hydrogen peroxide | Activated sludge, aerobe | Specific analysis (primary degradation) | > 50 % in < 1 day(s) | | Not applicable (inorganic substance) |
| acetic acid | Activated sludge, aerobe | | 96% in 20 day(s) | | Readily biodegradable |
| Peracetic acid | | | | Method not given | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| Hydrogen peroxide | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| Hydrogen peroxide | | | | | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| Hydrogen peroxide | -1.57 | | No bioaccumulation expected | |
| acetic acid | -0.17 | Method not given | No bioaccumulation expected | |
| Peracetic acid | No data available | | Not relevant, does not bioaccumulate | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| Hydrogen peroxide | 1.4 | | QSAR | Low potential for bioaccumulation | |
| acetic acid | 3.16 | | Method not given | No bioaccumulation expected | |
| Peracetic acid | No data available | | | | |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|---|---|---|---|---|
| Hydrogen peroxide | 2 | | | | Mobile in soil |
| acetic acid | No data available | | | | Potential for mobility in soil, soluble in water |
| Peracetic acid | No data available | | | | Mobile in aqueous environment |

### 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

### 12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

### 12.7 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Waste from residues / unused products:** The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:** 16 09 03* - peroxides, for example hydrogen peroxide.

**Empty packaging**

**Recommendation:** Dispose of observing national or local regulations.

**Suitable cleaning agents:** Water, if necessary with cleaning agent.

## SECTION 14: Transport information


**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**14.1 UN number or ID number:** 3109

**14.2 UN proper shipping name:**

Organic peroxide type F, liquid ( peroxyacetic acid )

**14.3 Transport hazard class(es):**
**Transport hazard class (and subsidiary risks):** 5.2(8)
**14.4 Packing group:** -
**14.5 Environmental hazards:**
**Environmentally hazardous:** Yes
**Marine pollutant:** Yes
**14.6 Special precautions for user:**
Control temperature Not applicable.
**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:**
**ADR**
**Classification code:** P1
**Tunnel restriction code:** (D)
**Hazard identification number:** 539
**IMO/IMDG**
**EmS:** F-J, S-R

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code
Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

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

**National regulations :**
• Regulation (EC) 1907/2006 - REACH (UK amended)
• Regulation (EC) 1272/2008 - CLP (UK amended)
• Regulation (EC) 648/2004 - Detergents regulation (UK amended)
• Biocidal Products Regulations 2001 (SI 2001/880)
• Control of Poisons and Explosives Precursors Regulations 2015
• Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
• Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
• International Maritime Dangerous Goods (IMDG) Code

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**Ingredients according to Detergents Regulation**
disinfectants

**Comah - classification:** P6b - SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

**15.2 Chemical safety assessment**
A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MSDS3647 **Version:** 09.0 **Revision:** 2025-05-19

**Reason for revision:**
This data sheet contains changes from the previous version in section(s):, 2, 7, 16

**Classification procedure**
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Abbreviations and acronyms:**
• AISE - The international Association for Soaps, Detergents and Maintenance Products
• ATE - Acute Toxicity Estimate
• DNEL - Derived No Effect Limit
• EC50 - effective concentration, 50%
• ERC - Environmental release categories
• EUH - CLP Specific hazard statement
• LC50 - Lethal Concentration, 50% / Median Lethal Concentration
• LCS - Life cycle stage
• LD50 - Lethal Dose, 50% / Median Lethal dose

- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H226 - Flammable liquid and vapour.
- H242 - Heating may cause a fire.
- H271 - May cause fire or explosion; strong oxidiser.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**