# Safety Data Sheet

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

## Oxivir Excel®

**Revision:** 2024-05-31 **Version:** 01.6

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

**1.1 Product identifier**
**Trade name:** Oxivir Excel®

UFI: 54V2-5013-H00K-ARAR

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

| | |
|---|---|
| **Product use:** | Surface disinfectant.<br>Hard surface cleaner.<br>for general surface disinfection<br>for food contact surface disinfection<br>for cleaning of medical devices<br>for disinfection of medical devices<br>For professional use only. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
AISE_SWED_PW_8a_1
AISE_SWED_PW_10_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_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

Tel: 01 8081808 (9am - 5pm Mon-Fri)
Email: dublin.orders@solenis.com

**1.4 Emergency telephone number**
Seek medical advice (show the label or safety data sheet where possible).
National Poisons Information Centre
Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)
Tel: 01 809 2566 (health care professionals).

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

Skin corrosion, Category 1C (H314)
Serious eye damage, Category 1 (H318)
Chronic aquatic toxicity, Category 3 (H412)
Corrosive to metals, Category 1 (H290)

**2.2 Label elements**

**Signal word:** Danger.

Contains alkylbenzenesulphonic acid (Dodecylbenzene Sulfonic Acid)

**Hazard statements:**
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

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.

**2.3 Other hazards**
No other hazards known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | 287-494-3 | 85536-14-7 | 01-2119490234-40 | Skin corrosion, Category 1C (H314)<br>Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)<br>Chronic aquatic toxicity, Category 3 (H412) | | 10-20 |
| (2-methoxymethylethoxy)propanol | 252-104-2 | 34590-94-8 | 01-2119450011-60 | Not classified as hazardous | | 10-20 |
| 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) | | 3-10 |
| methanesulphonic acid | 200-898-6 | 75-75-2 | 01-2119491166-34 | Skin corrosion, Category 1B (H314)<br>Acute toxicity - Oral, Category 4 (H302)<br>Acute toxicity - Dermal, Category 4 (H312)<br>Specific target organ toxicity - Single exposure, Category 3 (H335)<br>Serious eye damage, Category 1 (H318)<br>Corrosive to metals, Category 1 (H290) | | 1-3 |
| alkyl alcohol ethoxylate | [4] | 68439-46-3 | [4] | Serious eye damage, Category 1 (H318) | | 1-3 |

**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 1A (H314) >= 60% > Skin corrosion, Category 1B (H314) >= 50% > Skin irritation, Category 2 (H315) >= 35%
• Specific target organ toxicity - Single exposure, Category 3 (H335) >= 35%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
[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:** 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:** Get medical attention or advice if you feel unwell.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

**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.

**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:** No known effects or symptoms in normal use.

**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**
Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**
No special hazards known.

**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. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). 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:**
No special precautions required.

**Measures required to protect the environment:**
For environmental exposure controls see subsection 8.2.

**Advices 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 adviced 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 breathe spray. 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 closed container. Keep only in original packaging. Keep from freezing.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**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) | Long term value(s) | Short term value(s) |
|---|---|---|
| (2-methoxymethylethoxy)propanol | 50 ppm<br>308 mg/m³ | 150 ppm<br>924 mg/m³ |
| Hydrogen peroxide | 1 ppm<br>1.5 mg/m³ | 3 mg/m³<br>2 ppm |

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 |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | - | - | - | 0.425 |
| (2-methoxymethylethoxy)propanol | - | - | - | 36 |
| Hydrogen peroxide | - | - | - | - |
| methanesulphonic acid | - | - | - | 8.33 |
| alkyl alcohol ethoxylate | - | - | - | 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) |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | - | - | - | 85 |
| (2-methoxymethylethoxy)propanol | No data available | - | No data available | 283 |
| Hydrogen peroxide | - | - | - | - |
| methanesulphonic acid | No data available | - | No data available | 19.44 |
| alkyl alcohol ethoxylate | - | - | - | - |

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) |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | - | - | - | 42.5 |
| (2-methoxymethylethoxy)propanol | No data available | - | No data available | 15 |
| Hydrogen peroxide | - | - | - | - |
| methanesulphonic acid | No data available | - | No data available | 8.33 |
| alkyl alcohol ethoxylate | - | - | - | - |

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 |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | - | - | - | 6 |
| (2-methoxymethylethoxy)propanol | - | - | - | 308 |
| Hydrogen peroxide | 3 | - | 1.4 | - |
| methanesulphonic acid | - | - | 2.89 | 6.76 |
| alkyl alcohol ethoxylate | - | - | - | 294 |

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 |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | - | - | - | 1.5 |
| (2-methoxymethylethoxy)propanol | - | - | - | 37.2 |
| Hydrogen peroxide | 1.93 | - | 0.21 | - |
| methanesulphonic acid | - | 1.44 | 1.73 | 1.44 |
| alkyl alcohol ethoxylate | - | - | - | 87 |

**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) |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | 0.268 | 0.027 | 0.017 | 3.43 |
| (2-methoxymethylethoxy)propanol | 19 | 1.9 | 190 | 4168 |
| Hydrogen peroxide | 0.0126 | 0.0126 | 0.0138 | 4.66 |
| methanesulphonic acid | 0.012 | 0.0012 | 0.12 | 100 |
| alkyl alcohol ethoxylate | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | 8.1 | 6.8 | 35 | - |
| (2-methoxymethylethoxy)propanol | 70.2 | 7.02 | 2.74 | 190 |
| Hydrogen peroxide | 0.047 | 0.047 | 0.0023 | - |
| methanesulphonic acid | 0.0251 | - | 0.00183 | 0.12 |
| alkyl alcohol ethoxylate | - | - | - | - |

**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 |
|---|---|---|---|---|---|
| Manual transfer and dilution | AISE_SWED_PW_8a_1 | PW | PROC 8a | 60 | ERC8a |

**Personal protective equipment**
**Eye / face protection:** Safety glasses or goggles (EN 16321 / EN 166). 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:** No special requirements under normal use conditions. 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) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) 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):** 5

**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 |
|---|---|---|---|---|---|
| Manual application by brushing, wiping or mopping | AISE_SWED_PW_10_1 | PW | PROC 10 | 480 | ERC8a |
| Spray application | AISE_SWED_PW_11_1 | PW | PROC 11 | 60 | ERC8a |
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 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:** Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

**Environmental exposure controls:** No special requirements under normal use conditions.

## 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 , Light , Yellow

**Odour:** Product specific
**Odour threshold:** Not applicable
**Melting point/freezing point (°C):** Not determined — Not relevant to classification of this product
**Initial boiling point and boiling range (°C):** Not determined — See substance data

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| alkylbenzenesulphonic acid | 190 | Method not given | |
| (2-methoxymethylethoxy)propanol | 189.6 | Method not given | 1013 |
| Hydrogen peroxide | 150.2 | Method not given | |
| methanesulphonic acid | 167 | Method not given | |
| alkyl alcohol ethoxylate | No data available | | |

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids
**Flammability (liquid):** Not flammable.
**Flash point (°C):** Not applicable.
**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) |
|---|---|---|
| (2-methoxymethylethoxy)propanol | 1.1 | 14 |

**Method / remark**

**Autoignition temperature:** Not determined
**Decomposition temperature:** Not applicable.
**pH:** =< 2 (neat) — ISO 4316
**Dilution pH:** < 2 (5 %) — 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) |
|---|---|---|---|
| alkylbenzenesulphonic acid | > 10 | Method not given | 20 |
| (2-methoxymethylethoxy)propanol | Soluble | Method not given | 20 |
| Hydrogen peroxide | 1000 | Method not given | 20 |
| methanesulphonic acid | Soluble | | |
| alkyl alcohol ethoxylate | 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) |
|---|---|---|---|
| alkylbenzenesulphonic acid | 0.15 | | 20 |
| (2-methoxymethylethoxy)propanol | 37.1 | Method not given | 20 |
| Hydrogen peroxide | 214 | Method not given | 20 |
| methanesulphonic acid | 0.0475 | Method not given | 20 |
| alkyl alcohol ethoxylate | No data available | | |

**Method / remark**

**Relative density:** ≈ 1.07 (20 °C) — OECD 109 (EU A.3)
**Relative vapour density:** -. — 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.
**Corrosion to metals:** Corrosive — UN Manual of Tests and Criteria, section 37

**9.2.2 Other safety characteristics**
**Acid reserve:** ≈ -3.1 (g NaOH / 100g; pH=4)

## 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**
None known under normal storage and use conditions.

**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**
None known under normal storage and use conditions.

## SECTION 11: Toxicological information

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

Mixture data: .

**Relevant calculated ATE(s):**
ATE - Oral (mg/kg): >2000
ATE - Dermal (mg/kg): >2000
ATE - Inhalatory, vapours (mg/l): >20

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) |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | $LD_{50}$ | 1470 | Rat | OECD 401 (EU B.1) | | 1470 |
| (2-methoxymethylethoxy)propanol | $LD_{50}$ | > 5000 | Rat | OECD 401 (EU B.1) | | Not established |
| Hydrogen peroxide | $LD_{50}$ | > 300-2000 | Rat | Weight of evidence | | 16000 |
| methanesulphonic acid | $LD_{50}$ | 649 | Rat | OECD 401 (EU B.1) | | 649 |
| alkyl alcohol ethoxylate | $LD_{50}$ | 1400 | | | | Not established |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | $LD_{50}$ | > 2000 | Rat | OECD 402 (EU B.3) | | Not established |
| (2-methoxymethylethoxy)propanol | $LD_{50}$ | 9510 | Rabbit | Method not given | | Not established |
| Hydrogen peroxide | $LD_{50}$ | > 2000 | Rabbit | Substance was tested as 35 % aqueous solution | | Not established |
| methanesulphonic acid | $LD_{50}$ | > 1000 | Rabbit | OECD 402 (EU B.3) | | 1000 |
| alkyl alcohol ethoxylate | $LD_{50}$ | > 2000 | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | |
| (2-methoxymethylethoxy)propanol | $LC_0$ | > 1.667 (vapour) No mortality observed | Rat | | 7 |
| Hydrogen peroxide | $LC_0$ | No mortality observed (vapour) | Rat | Method not given | 4 |
| methanesulphonic acid | $LC_0$ | > 0.0188 | Mouse | Method not given | 1 |

| | | | | | |
|---|---|---|---|---|---|
| | | (vapour) No mortality observed | | | |
| alkyl alcohol ethoxylate | | No data available | | | |

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) |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | Not established | Not established | Not established | Not established |
| (2-methoxymethylethoxy)propanol | Not established | Not established | Not established | Not established |
| Hydrogen peroxide | Not established | Not established | 11 | Not established |
| methanesulphonic acid | Not established | Not established | Not established | Not established |
| alkyl alcohol ethoxylate | Not established | Not established | Not established | Not established |

### Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| (2-methoxymethylethoxy)propanol | Not irritant | | Method not given | |
| Hydrogen peroxide | Corrosive | Rabbit | Method not given | |
| methanesulphonic acid | Corrosive | Mouse | | 1 hour(s) |
| alkyl alcohol ethoxylate | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| (2-methoxymethylethoxy)propanol | Not corrosive or irritant | | Method not given | |
| Hydrogen peroxide | Corrosive | Rabbit | Method not given | |
| methanesulphonic acid | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| alkyl alcohol ethoxylate | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | No data available | | | |
| (2-methoxymethylethoxy)propanol | No data available | | | |
| Hydrogen peroxide | Irritating to respiratory tract | | Method not given | |
| methanesulphonic acid | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| (2-methoxymethylethoxy)propanol | Not sensitising | | Method not given | |
| Hydrogen peroxide | Not sensitising | Guinea pig | Method not given | |
| methanesulphonic acid | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| alkyl alcohol ethoxylate | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | No data available | | | |
| (2-methoxymethylethoxy)propanol | No data available | | | |
| Hydrogen peroxide | No data available | | | |
| methanesulphonic acid | No data available | | | |
| alkyl alcohol ethoxylate | 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) |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| (2-methoxymethylethoxy)propanol | No evidence for mutagenicity, negative | Method not | No data available | |

| | | | | |
|---|---|---|---|---|
| | test results | given | | |
| Hydrogen peroxide | No evidence for mutagenicity | OECD 471 (EU B.12/13) | No evidence of genotoxicity, negative test results | Method not given |
| methanesulphonic acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| alkyl alcohol ethoxylate | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| alkylbenzenesulphonic acid | No evidence for carcinogenicity, weight-of-evidence |
| (2-methoxymethylethoxy)propanol | No evidence for carcinogenicity, negative test results |
| Hydrogen peroxide | No evidence for carcinogenicity, negative test results |
| methanesulphonic acid | No data available |
| alkyl alcohol ethoxylate | No data available |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | NOAEL | Teratogenic effects | 300 | Rat | Read across | 20 day(s) | |
| (2-methoxymethylethoxy)propanol | | | No data available | | | | No evidence for reproductive toxicity |
| Hydrogen peroxide | | | No data available | | | | No evidence for reproductive toxicity |
| methanesulphonic acid | NOAEL | Impaired fertility Developmental toxicity | ≥ 400 | Rat | OECD 414 (EU B.31), oral OECD 421, oral | | No evidence for reproductive toxicity |
| alkyl alcohol ethoxylate | | | No data available | | | | |

**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 |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| Hydrogen peroxide | NOAEL | 100 | Mouse | OECD 408 (EU B.26) | 90 | |
| methanesulphonic acid | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| Hydrogen peroxide | | No data available | | | | |
| methanesulphonic acid | | No data available | | | | |
| alkyl alcohol ethoxylate | | 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 |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| Hydrogen peroxide | NOAEL | 7 | Mouse | OECD 413 (EU B.29) | 28 | |
| methanesulphonic acid | NOAEL | 0.026 | Rat | Method not given | 30 | |
| alkyl alcohol ethoxylate | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure | Endpoint | Value | Species | Method | Exposure | Specific effects and | Remark |
|---|---|---|---|---|---|---|---|---|

| | route | | (mg/kg bw/d) | | | time | organs affected | |
|---|---|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | Oral | NOAEL | 85 | Rat | Read across | 9 month(s) | | |
| (2-methoxymethylethoxy)propanol | | | No data available | | | | | |
| Hydrogen peroxide | | | No data available | | | | | |
| methanesulphonic acid | | | No data available | | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| alkylbenzenesulphonic acid | No data available |
| (2-methoxymethylethoxy)propanol | No data available |
| Hydrogen peroxide | No data available |
| methanesulphonic acid | Respiratory tract |
| alkyl alcohol ethoxylate | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| alkylbenzenesulphonic acid | No data available |
| (2-methoxymethylethoxy)propanol | No data available |
| Hydrogen peroxide | No data available |
| methanesulphonic acid | Respiratory tract |
| alkyl alcohol ethoxylate | 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) |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | $LC_{50}$ | 1 - 10 | *Cyprinus carpio* | OECD 203 (EU C.1) | 96 |
| (2-methoxymethylethoxy)propanol | $LC_{50}$ | > 1000 | *Poecilia reticulata* | Method not given | 96 |
| Hydrogen peroxide | $LC_{50}$ | 16.4 | *Pimephales promelas* | EPA-OPPTS 850.1075 | 96 |
| methanesulphonic acid | $LC_{50}$ | 73 | *Oncorhynchus mykiss* | OECD 203 (EU C.1) | 96 |
| alkyl alcohol ethoxylate | $LC_{50}$ | 6 | *Oncorhynchus mykiss* | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | $EC_{50}$ | 1 - 10 | *Daphnia magna Straus* | OECD 202 (EU C.2) | 48 |
| (2-methoxymethylethoxy)propanol | $EC_{50}$ | 1919 | *Daphnia magna Straus* | Method not given | 48 |
| Hydrogen peroxide | $EC_{50}$ | 2.4 | *Daphnia pulex* | Method not given | 48 |
| methanesulphonic acid | $EC_{50}$ | 10 - 100 | *Daphnia* | OECD 202, static | 48 |

| | | | | | |
|---|---|---|---|---|---|
| | | | *magna Straus* | | |
| alkyl alcohol ethoxylate | $EC_{50}$ | 2.5 | *Daphnia* | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | $EC_{50}$ | 10 - 100 | *Desmodesmus subspicatus* | OECD 201 (EU C.3) | 72 |
| (2-methoxymethylethoxy)propanol | $EC_{50}$ | > 969 | *Selenastrum capricornutum* | Method not given | 72 |
| Hydrogen peroxide | $EC_{50}$ | 1.38 | *Skeletonema costatum (marine)* | OECD 201 (EU C.3) | 72 |
| methanesulphonic acid | $EC_{50}$ | 12 - 24 | *Pseudokirchneriella subcapitata* | OECD 201 (EU C.3) | 72 |
| alkyl alcohol ethoxylate | $E_rC_{50}$ | 1-10 | *Not specified* | Method not given | 96 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | |
| Hydrogen peroxide | $ErC_{50}$ | 1.38 | *Skeletonema costatum* | Method not given | 72 |
| methanesulphonic acid | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | |
| (2-methoxymethylethoxy)propanol | $EC_{10}$ | 4168 | *Pseudomonas putida* | Method not given | |
| Hydrogen peroxide | $EC_{50}$ | 466 | *Activated sludge* | Method not given | |
| methanesulphonic acid | $EC_{20}$ | > 1000 | *Activated sludge* | DIN EN ISO 8192-OECD 209-88/302/EEC | 0.5 hour(s) |
| alkyl alcohol ethoxylate | | No data available | | | |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | NOEC | 0.1 - 1 | *Lepomis macrochirus* | Read across | 28 day(s) | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| Hydrogen peroxide | NOEC | 4.3 | *Pimephales promelas* | Method not given | 96 hour(s) | |
| methanesulphonic acid | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | NOEC | 1 - 10 | *Not specified* | Read across | 32 day(s) | |
| (2-methoxymethylethoxy)propanol | NOEC | > 0.5 | *Daphnia magna* | Method not given | 22 day(s) | |
| Hydrogen peroxide | NOEC | 1 | *Daphnia pulex* | Method not given | 48 hour(s) | |
| methanesulphonic acid | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |

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

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure | Effects observed |
|---|---|---|---|---|---|---|

| | | (mg/kg dw sediment) | | | time (days) | |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| Hydrogen peroxide | | No data available | | | | |
| methanesulphonic acid | | No data available | | | | |
| alkyl alcohol ethoxylate | | 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 |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | $LD_{50}$ | > 1000 | *Eisenia fetida* | OECD 207 | 14 | |
| 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 |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | $EC_{50}$ | 167 | | OECD 208 | 21 | |
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | | |
| 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 |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | | |
| 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 |
|---|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | No data available | | | | |
| 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 |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | No data available | | | |
| (2-methoxymethylethoxy)propanol | < 1 day(s) | Method not given | Rapidly photodegradable | |
| 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 |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | No data available | | | |
| Hydrogen peroxide | No data available | | | |

Abiotic degradation - other processes, if available:

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

| | | | | | |
|---|---|---|---|---|---|
| Hydrogen peroxide | | No data available | | | |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | | 94 % in 28 day(s) | OECD 301A | Readily biodegradable |
| (2-methoxymethylethoxy)propanol | | Oxygen depletion | 75 % in 28 day(s) | OECD 301F | Readily biodegradable |
| Hydrogen peroxide | Activated sludge, aerobe | Specific analysis (primary degradation) | > 50 % in < 1 day(s) | | Not applicable (inorganic substance) |
| methanesulphonic acid | | COD removal | >90% in 28 day(s) | OECD 301A | Readily biodegradable |
| alkyl alcohol ethoxylate | Activated sludge, aerobe | | 72% in 28 day(s) | ISO 14593 | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | | | | No data available |
| Hydrogen peroxide | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | | | | | No data available |
| Hydrogen peroxide | | | | | No data available |

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | 3.2 | Method not given | Low potential for bioaccumulation | |
| (2-methoxymethylethoxy)propanol | 1.01 | Method not given | Low potential for bioaccumulation | |
| Hydrogen peroxide | -1.57 | | No bioaccumulation expected | |
| methanesulphonic acid | -5.17 | | No bioaccumulation expected | |
| alkyl alcohol ethoxylate | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | 2 - 500 | | Method not given | Low potential for bioaccumulation | |
| (2-methoxymethylethoxy)propanol | No data available | | | | |
| Hydrogen peroxide | 1.4 | | QSAR | Low potential for bioaccumulation | |
| methanesulphonic acid | No data available | | | | |
| alkyl alcohol ethoxylate | 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 |
|---|---|---|---|---|---|
| alkylbenzenesulphonic acid | No data available | | | | Low mobillity in soil |
| (2-methoxymethylethoxy)propanol | No data available | | | | High potential for mobility in soil |
| Hydrogen peroxide | 2 | | | | Mobile in soil |
| methanesulphonic acid | 0 | | Model calculation | | Mobile in soil |
| alkyl alcohol ethoxylate | No data available | | | | |

**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:** | 20 01 14* - acids. |
| **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:** 1760

**14.2 UN proper shipping name:**

Corrosive liquid, n.o.s. ( hydrogen peroxide , alkylsulphonic acid )

**14.3 Transport hazard class(es):**

**Transport hazard class (and subsidiary risks):** 8

**14.4 Packing group:** III

**14.5 Environmental hazards:**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6 Special precautions for user:** None known.

**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:** C9

**Tunnel restriction code:** (E)

**Hazard identification number:** 80

**IMO/IMDG**

**EmS:** F-A, S-B

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**

**EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- Regulation (EU) 2017/745 on medical devices
- Regulation (EU) No 528/2012 on biocidal products
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code
- Regulation (EU) 2019/1148 - Explosive Precursors

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

**Ingredients according to EC Detergents Regulation 648/2004**

| | |
|---|---|
| anionic surfactants | >= 30 % |
| non-ionic surfactants, phosphonates | < 5 % |
| disinfectants | |

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be

made available to them, at their direct request or at the request of a detergent manufacturer.

**Seveso - Classification:** Not classified

**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:** MS1003145 **Version:** 01.6 **Revision:** 2024-05-31

**Reason for revision:**
Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 2, 3, 8, 9, 11, 12, 15, 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
• H271 - May cause fire or explosion; strong oxidiser.
• H290 - May be corrosive to metals.
• H302 - Harmful if swallowed.
• H312 - Harmful in contact with skin.
• H314 - Causes severe skin burns and eye damage.
• H318 - Causes serious eye damage.
• H332 - Harmful if inhaled.
• H335 - May cause respiratory irritation.
• H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**