# Safety Data Sheet

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

## Cif Professional Multi Surface

**Revision:** 2022-12-01 **Version:** 03.1

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

**1.1 Product identifier**
**Trade name:** Cif Professional Multi Surface
*Cif is a registered trade mark and is used under licence of Unilever*

UFI: NWM3-C072-C00P-J9RM

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

| | |
|---|---|
| **Product use:** | Furniture polish.<br>Hard surface cleaner. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
AISE_SWED_PW_10_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1
PC31-Polishes and wax blends
PC35-Washing and cleaning products

**1.3 Details of the supplier of the safety data sheet**
Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands
Tel: 01 8081808 (9am - 5pm Mon-Fri)
Email: dublin.orders@diversey.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**

Aerosol 3 (H229)

**2.2 Label elements**
**Signal word:** Warning.

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone)

**Hazard statements:**
H229 - Pressurised container: May burst if heated.
EUH208 - May produce an allergic reaction.

**Precautionary statements:**
P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 - Do not pierce or burn, even after use.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

**Further indications on the label:**
Contains: preservative. 2 % by mass of the contents are flammable.

**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 |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | 232-455-8 | 8042-47-5 | 01-2119487078-27 | Asp. Tox. 1 (H304) | | 3-10 |
| butane | 203-448-7 | 106-97-8 | 01-2119474691-32 | Flam. Gas 1 (H220)<br>Press. Gas (Comp.) (H280) | | 1-3 |
| Alcohols, C12-14, ethoxylated | 500-213-3 | 68439-50-9 | 01-2119487984-16 | Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 3 (H412) | | 0.1-1 |
| 1,2-benzisothiazol-3(2H)-one | 220-120-9 | 2634-33-5 | [6] | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) | | 0.01-0.1 |
| 2-methyl-2H-isothiazol-3-one | 220-239-6 | 2682-20-4 | [6] | Acute Tox. 2 (H330)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 M=10 (H400)<br>Aquatic Chronic 1 (H410) | | < 0.01 |

**Specific concentration limits**
2-methyl-2H-isothiazol-3-one:
• Skin Sens. 1 (H317) >= 0.0015%

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**

**Inhalation:** Get medical attention or advice if you feel unwell.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

**Eye contact:** Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.

**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. 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:** No known effects or symptoms in normal use.

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

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

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

**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**
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**
No special measures required.

**6.2 Environmental precautions**
No special environmental precautions required.

**6.3 Methods and material for containment and cleaning up**
Absorb liquid components with liquid-binding material.

**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. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50° C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Use non-sparking tools.

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

**Advices on general occupational hygiene:**
Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Handle and open container with care. Wash hands thoroughly after handling. 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. Keep out of reach of children. Keep away from heat and direct sunlight.
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) |
|---|---|---|
| butane | 1000 ppm | 3000 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 |
|---|---|---|---|---|
| white mineral oil (petroleum) | - | - | - | 40 |
| butane | No data available | No data available | No data available | No data available |
| Alcohols, C12-14, ethoxylated | - | - | - | 25 |
| 1,2-benzisothiazol-3(2H)-one | - | - | - | - |
| 2-methyl-2H-isothiazol-3-one | - | - | - | 0.027 |

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) |
|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | - | No data available | 220 |
| butane | No data available | No data available | No data available | No data available |
| Alcohols, C12-14, ethoxylated | No data available | - | No data available | 2080 |
| 1,2-benzisothiazol-3(2H)-one | - | - | - | - |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

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) |
|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | - | No data available | - |
| butane | No data available | No data available | No data available | No data available |
| Alcohols, C12-14, ethoxylated | No data available | - | No data available | 1250 |
| 1,2-benzisothiazol-3(2H)-one | - | - | - | - |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

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 |
|---|---|---|---|---|
| white mineral oil (petroleum) | - | - | - | 160 |
| butane | No data available | No data available | No data available | No data available |
| Alcohols, C12-14, ethoxylated | - | - | - | 294 |
| 1,2-benzisothiazol-3(2H)-one | - | - | - | - |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

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 |
|---|---|---|---|---|
| white mineral oil (petroleum) | - | - | - | 35 |
| butane | No data available | No data available | No data available | No data available |
| Alcohols, C12-14, ethoxylated | - | - | 25 | 87 |
| 1,2-benzisothiazol-3(2H)-one | - | - | - | - |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

**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) |
|---|---|---|---|---|
| white mineral oil (petroleum) | - | - | - | - |
| butane | No data available | No data available | No data available | No data available |
| Alcohols, C12-14, ethoxylated | 0.074 | 0.007 | 0.004 | 10000 |
| 1,2-benzisothiazol-3(2H)-one | 0.0026 | 0.00026 | - | 0.055 |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| white mineral oil (petroleum) | - | - | - | - |
| butane | No data available | No data available | No data available | No data available |
| Alcohols, C12-14, ethoxylated | 66.67 | 6.66 | 1 | - |
| 1,2-benzisothiazol-3(2H)-one | 0.0132 | - | 0.33 | - |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

**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:** No special requirements under normal use conditions.
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

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

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| PC31-Polishes and wax blends | PC31-Polishes and wax blends | | - | | |
| PC35-Washing and cleaning products | PC35-Washing and cleaning products | | - | | |
| Manual application by brushing, wiping or mopping | AISE_SWED_PW_10_1 | | PROC 10 | | |
| Spray application | AISE_SWED_PW_11_1 | | PROC 11 | | |

| | | | | | |
|---|---|---|---|---|---|
| Manual application | AISE_SWED_PW_19_1 | | PROC 19 | | |

**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:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**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:** Aerosol
**Colour:** Milky , White
**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 — Not applicable as product is an aerosol

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| white mineral oil (petroleum) | > 315 | Method not given | |
| butane | No data available | | |
| Alcohols, C12-14, ethoxylated | No data available | | |
| 1,2-benzisothiazol-3(2H)-one | No data available | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | |

**Method / remark**

**Flammability (solid, gas):** Not determined
**Flammability (liquid):** Not applicable. Not flammable.
**Flash point (°C):** Not applicable as product is an aerosol > 61 °C — closed cup
**Sustained combustion:** The product does not sustain combustion — Weight of evidence
*( 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:

**Method / remark**

**Autoignition temperature:** Not determined
**Decomposition temperature:** Not applicable.
**pH:** ≈ 7 (neat) — ISO 4316
**Kinematic viscosity:** ≈ 510 mPa.s (20 °C) — DM-006 Viscosity - Additional
**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| white mineral oil (petroleum) | Insoluble | Method not given | |
| butane | No data available | | |
| Alcohols, C12-14, ethoxylated | No data available | | |
| 1,2-benzisothiazol-3(2H)-one | No data available | | |
| 2-methyl-2H-isothiazol-3-one | 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) |
|---|---|---|---|
| white mineral oil (petroleum) | < 1.3 | Method not given | 37.8 |
| butane | No data available | | |
| Alcohols, C12-14, ethoxylated | No data available | | |
| 1,2-benzisothiazol-3(2H)-one | No data available | | |

| | | | |
|---|---|---|---|
| 2-methyl-2H-isothiazol-3-one | No data available | | |

**Relative density:** ≈ 0.98 (20 °C) — **Method / remark:** 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. Vapours may form explosive mixtures with air.
**Oxidising properties:** Not oxidising.
**Corrosion to metals:** Not corrosive — Weight of evidence

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

**10.5 Incompatible materials**
None known under normal use conditions.

**10.6 Hazardous decomposition products**
None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

Mixture data:.

**Relevant calculated ATE(s):**
ATE - Oral (mg/kg): >2000

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 (mg/kg) |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | $LD_{50}$ | > 5000 | Rat | OECD 401 (EU B.1) | | Not established |
| butane | | No data available | | | | Not established |
| Alcohols, C12-14, ethoxylated | $LD_{50}$ | > 2000 | Rat | OECD 401 (EU B.1) | | Not established |
| 1,2-benzisothiazol-3(2H)-one | $LD_{50}$ | > 2000 | Rat | | | 3.8e+006 |
| 2-methyl-2H-isothiazol-3-one | $LD_{50}$ | 120 | Rat | OECD 401 (EU B.1) | | 1.6e+007 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | $LD_{50}$ | > 2000 | Rabbit | OECD 402 (EU B.3) | | Not established |
| butane | | No data available | | | | Not established |
| Alcohols, C12-14, ethoxylated | $LD_{50}$ | > 3000 | | Method not given | | Not established |
| 1,2-benzisothiazol-3(2H)-one | $LD_{50}$ | > 2000 | Rat | OECD 402 (EU B.3) | | Not established |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-methyl-2H-isothiazol-3-one | $LD_{50}$ | 242 | Rat | OECD 402 (EU B.3) | 24 hours | 4e+007 |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | $LC_{50}$ | > 5 | Rat | OECD 403 (EU B.2) | 4 |
| butane | | No data available | | | |
| Alcohols, C12-14, ethoxylated | $LC_{50}$ | > 1600 (vapour) No mortality observed | | Method not given | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | $LC_{50}$ | (mist) 0.11 | Rat | OECD 403 (EU B.2) | 4 hours |

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) |
|---|---|---|---|---|
| white mineral oil (petroleum) | Not established | Not established | Not established | Not established |
| butane | Not established | Not established | Not established | Not established |
| Alcohols, C12-14, ethoxylated | Not established | Not established | Not established | Not established |
| 1,2-benzisothiazol-3(2H)-one | Not established | Not established | Not established | Not established |
| 2-methyl-2H-isothiazol-3-one | Not established | 18000 | Not established | Not established |

## Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| white mineral oil (petroleum) | Not irritant | | | |
| butane | No data available | | | |
| Alcohols, C12-14, ethoxylated | Not irritant | | | |
| 1,2-benzisothiazol-3(2H)-one | Corrosive | | Method not given | |
| 2-methyl-2H-isothiazol-3-one | Corrosive | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| white mineral oil (petroleum) | Not corrosive or irritant | | | |
| butane | No data available | | | |
| Alcohols, C12-14, ethoxylated | Severe damage | | Weight of evidence | |
| 1,2-benzisothiazol-3(2H)-one | Severe damage | | Method not given | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | | | |
| butane | No data available | | | |
| Alcohols, C12-14, ethoxylated | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |

## Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| white mineral oil (petroleum) | Not sensitising | | | |
| butane | No data available | | | |
| Alcohols, C12-14, ethoxylated | Not sensitising | Guinea pig | OECD 406 (EU B.6) | |
| 1,2-benzisothiazol-3(2H)-one | Sensitising | Guinea pig | | |
| 2-methyl-2H-isothiazol-3-one | Sensitising | Guinea pig | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | | | |
| butane | No data available | | | |
| Alcohols, C12-14, ethoxylated | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | 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) |
|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | | No data available | |
| butane | No data available | | No data available | |
| Alcohols, C12-14, ethoxylated | No data available | | No data available | |
| 1,2-benzisothiazol-3(2H)-one | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available | |
| 2-methyl-2H-isothiazol-3-one | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| white mineral oil (petroleum) | No data available |
| butane | No data available |
| Alcohols, C12-14, ethoxylated | No data available |
| 1,2-benzisothiazol-3(2H)-one | No data available |
| 2-methyl-2H-isothiazol-3-one | 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 |
|---|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | | No data available | | | | |
| butane | | | No data available | | | | |
| Alcohols, C12-14, ethoxylated | | | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | | 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 |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | | |
| butane | | No data available | | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | 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 |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | | |
| butane | | No data available | | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | 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 |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | | |
| butane | | No data available | | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-methyl-2H-isothiazol-3-one | | 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 |
|---|---|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | | No data available | | | | | |
| butane | | | No data available | | | | | |
| Alcohols, C12-14, ethoxylated | | | No data available | | | | | |
| 1,2-benzisothiazol-3(2H)-one | | | No data available | | | | | |
| 2-methyl-2H-isothiazol-3-one | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| white mineral oil (petroleum) | No data available |
| butane | No data available |
| Alcohols, C12-14, ethoxylated | No data available |
| 1,2-benzisothiazol-3(2H)-one | No data available |
| 2-methyl-2H-isothiazol-3-one | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| white mineral oil (petroleum) | No data available |
| butane | No data available |
| Alcohols, C12-14, ethoxylated | No data available |
| 1,2-benzisothiazol-3(2H)-one | No data available |
| 2-methyl-2H-isothiazol-3-one | 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) |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | |
| butane | | No data available | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | $LC_{50}$ | 2.18 | *Oncorhynchus mykiss* | OECD 203 (EU C.1) | |
| 2-methyl-2H-isothiazol-3-one | $LC_{50}$ | 4.77 | *Oncorhynchus mykiss* | Similar to OECD 203 | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | |
| butane | | No data available | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | $EC_{50}$ | 2.94 | *Daphnia* | OECD 202 (EU C.2) | 48 |
| 2-methyl-2H-isothiazol-3-one | $LC_{50}$ | 0.93-1.9 | *Daphnia magna Straus* | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | |
| butane | | No data available | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | $E_rC_{50}$ | 0.11 | | OECD 201 (EU C.3) | 72 |
| 2-methyl-2H-isothiazol-3-one | $EC_{50}$ | 0.158 | *Selenastrum capricornutum* | Method not given | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | |
| butane | | No data available | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | |
| butane | | No data available | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | $EC_{20}$ | 3.3 | *Activated sludge* | OECD 209 | 3 hour(s) |
| 2-methyl-2H-isothiazol-3-one | $EC_{20}$ | 2.8 | *Activated sludge* | OECD 209 | 3 hour(s) |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | | |
| butane | | No data available | | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | | |
| butane | | No data available | | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

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 |
|---|---|---|---|---|---|---|
| white mineral oil (petroleum) | | No data available | | | | |
| butane | | No data available | | | | |
| Alcohols, C12-14, ethoxylated | | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

**Terrestrial toxicity**

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

### 12.2 Persistence and degradability

**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | | | | OECD 301F | Not readily biodegradable. |
| butane | | | | | Readily biodegradable |
| Alcohols, C12-14, ethoxylated | Activated sludge, aerobe | Oxygen depletion | 95 % in 28 day(s) | OECD 301F | Readily biodegradable |
| 1,2-benzisothiazol-3(2H)-one | Adapted activated sludge | $CO_2$ production | 62% in 4 day(s) | OECD 301C | Not readily biodegradable. |
| 2-methyl-2H-isothiazol-3-one | | | | Other | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| 1,2-benzisothiazol-3(2H)-one | Sewage treatment plant simulation | Primary degradation | > 90% | OECD 303A | Biodegradable |
| 2-methyl-2H-isothiazol-3-one | Surface water (fresh) | Mineralisation rate | > 50 % in 4 day(s) | OECD 309 | Biodegradable |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | | | |
| butane | No data available | | | |
| Alcohols, C12-14, ethoxylated | No data available | | | |
| 1,2-benzisothiazol-3(2H)-one | 0.7 | OECD 107 | No bioaccumulation expected | |
| 2-methyl-2H-isothiazol-3-one | -0.32 | OECD 107 | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | | | | |
| butane | No data available | | | | |
| Alcohols, C12-14, ethoxylated | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | 6.95 | | OECD 305 | | |
| 2-methyl-2H-isothiazol-3-one | 3.16 | | OECD 305 | | |

**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 |
|---|---|---|---|---|---|
| white mineral oil (petroleum) | No data available | | | | |
| butane | No data available | | | | |
| Alcohols, C12-14, ethoxylated | No data available | | | | |
| 1,2-benzisothiazol-3(2H)-one | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | 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 29* - detergents containing dangerous substances.

**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:** 1950
**14.2 UN proper shipping name:**
Aerosols
**14.3 Transport hazard class(es):**
**Transport hazard class (and subsidiary risks):** 2.2
**14.4 Packing group:** -
**14.5 Environmental hazards:**
**Environmentally hazardous:** No
**Marine pollutant:** No
**14.6 Special precautions for user:** None known.
**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:**
**ADR**
**Classification code:** 5A

**Tunnel restriction code:** (E)

**IMO/IMDG**

**EmS:** F-D, S-U

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
- Directive 75/324/EEC on aerosol dispensers
- 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

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

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

| | |
|---|---|
| aliphatic hydrocarbons | 5 - 15 % |
| non-ionic surfactants | < 5 % |
| perfumes , Benzisothiazolinone, Methylisothiazolinone | |

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:** MS1003771 **Version:** 03.1 **Revision:** 2022-12-01

**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):, 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.

**Full text of the H and EUH phrases mentioned in section 3:**
- H220 - Extremely flammable gas.
- H280 - Contains gas under pressure; may explode if heated.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H330 - Fatal if inhaled.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

**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

**End of Safety Data Sheet**