



TASKI Jontec Restore F3g

Revision: 2022-11-28

Version: 10.0

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

1.1 Product identifier

Trade name: TASKI Jontec Restore F3g

UFI: 9J6J-M10M-E00U-V3JV

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

Product use: Floor cleaner.
For professional use only.
Uses advised against: Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_4_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, 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@diversey.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

Not classified as hazardous

2.2 Label elements

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone)

Hazard statements:

EUH208 - May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

Further indications on the label:

Contains: preservative.

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 |
|------------------------------|-----------|------------|------------------|--|-------|----------------|
| ethanol | 200-578-6 | 64-17-5 | 01-2119457610-43 | Flam. Liq. 2 (H225) | | 10-20 |
| 1-methoxy-2-propanol | 203-539-1 | 107-98-2 | 01-2119457435-35 | Flam. Liq. 3 (H226) STOT SE 3 (H336) | | 3-10 |
| 2-methyl-2H-isothiazol-3-one | 220-239-6 | 2682-20-4 | [6] | Acute Tox. 2 (H330) Acute Tox. 3 (H301) | | < 0.01 |

| | | | | | | |
|--|------------------------|------------|-----|--|--|--------|
| | | | | Acute Tox. 3 (H311) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=10 (H400) Aquatic Chronic 1 (H410) | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 220-239-6 247-500-7 | 55965-84-9 | [6] | Acute Tox. 2 (H310) Acute Tox. 2 (H330) Acute Tox. 3 (H301) Skin Corr. 1C (H314) EUH071 Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=100 (H400) Aquatic Chronic 1 M=100 (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.

[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

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**

No special measures required.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). 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. Do not mix with other products unless advised by Diversey. Do not breathe spray.

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.

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) | UK - Long term value(s) | UK - Short term value(s) |
|----------------------|------------------------------------|------------------------------------|
| ethanol | 1000 ppm 1920 mg/m ³ | 3000 ppm 5760 mg/m ³ |
| 1-methoxy-2-propanol | 100 ppm 375 mg/m ³ | 150 ppm 560 mg/m ³ |

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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| ethanol | - | - | - | 87 |
| 1-methoxy-2-propanol | - | - | - | 33 |
| 2-methyl-2H-isothiazol-3-one | - | - | - | 0.027 |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | - | - | - | - |

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) |
|--|----------------------------|--|---------------------------|---|
| ethanol | - | - | - | 343 |
| 1-methoxy-2-propanol | No data available | - | No data available | 183 |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | - | - | - | - |

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) |
|--|----------------------------|--|---------------------------|---|
| ethanol | - | - | - | 206 |
| 1-methoxy-2-propanol | No data available | - | No data available | 78 |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | - | - | - | - |

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

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| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| ethanol | 1900 | - | - | 950 |
| 1-methoxy-2-propanol | 553.5 | 183 | - | 369 |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | - | - | - | - |

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

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| ethanol | 950 | - | - | 114 |
| 1-methoxy-2-propanol | - | - | - | 43.9 |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | - | - | - | - |

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) |
|--|-----------------------------|------------------------------|---------------------|-------------------------------|
| ethanol | 0.96 | 0.79 | 2.75 | 580 |
| 1-methoxy-2-propanol | 10 | 1 | 100 | 100 |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|--|------------------------------|--------------------------|--------------|--------------------------|
| ethanol | 3.6 | 2.9 | 0.63 | - |
| 1-methoxy-2-propanol | 52.3 | 5.2 | 4.59 | - |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | - | - | - | - |

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: Provide a good standard of general ventilation.
Appropriate organisational controls: 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 |
|---|--|-----|---------|----------------|-------|
| Spray application | AISE_SWED_PW_11_1 | PW | PROC 11 | 60 | ERC8a |
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 480 | ERC8a |
| Automatic application in a dedicated system | AISE_SWED_PW_4_1 | PW | PROC 4 | 480 | ERC8a |

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

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

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Method / remark

Physical state: Liquid**Colour:** Opaque , White**Odour:** Product specific**Odour threshold:** Not applicable**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** Not determinedNot relevant to classification of this product
See substance data

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|--|-------------------|------------------|----------------------------|
| ethanol | 78.4 | Method not given | |
| 1-methoxy-2-propanol | 117-125 | Method not given | 1013 |
| 2-methyl-2H-isothiazol-3-one | No data available | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available | | |

Method / remark

Flammability (solid, gas): Not applicable to liquids**Flammability (liquid):** Not flammable.**Flash point (°C):** ≈ 38 °C**Sustained combustion:** The product does not sustain combustion
(UN Manual of Tests and Criteria, section 32, L.2)closed cup
Weight of evidence**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) |
|----------------------|---------------------|---------------------|
| 1-methoxy-2-propanol | 1.48 | 13.7 |

Method / remark

Autoignition temperature: Not determined**Decomposition temperature:** Not applicable.**pH:** ≈ 8 (neat)**Kinematic viscosity:** Not determined**Solubility in / Miscibility with water:** Fully miscible

ISO 4316

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|--|-------------------|------------------|------------------|
| ethanol | No data available | | |
| 1-methoxy-2-propanol | 2000 Soluble | Method not given | 20 |
| 2-methyl-2H-isothiazol-3-one | No data available | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 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) |
|--|-------------------|------------------|------------------|
| ethanol | 5800 | Method not given | |
| 1-methoxy-2-propanol | 1170 | Method not given | 20 |
| 2-methyl-2H-isothiazol-3-one | No data available | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available | | |

Method / remark

Relative density: ≈ 0.99 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.OECD 109 (EU A.3)
Not relevant to classification of this product
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

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) |
|--|------------------|---------------|---------|-------------------|-------------------|-----------------|
| ethanol | LD ₅₀ | 5000 | Rat | OECD 401 (EU B.1) | | Not established |
| 1-methoxy-2-propanol | LD ₅₀ | > 5000 | Rat | OECD 401 (EU B.1) | | 87000 |
| 2-methyl-2H-isothiazol-3-one | LD ₅₀ | 120 | Rat | OECD 401 (EU B.1) | | 7.9e+006 |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | LD ₅₀ | 64 | Rat | Method not given | | 5.3e+007 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|--|------------------|---------------|---------|-------------------|-------------------|-----------------|
| ethanol | LD ₅₀ | > 10000 | Rabbit | OECD 402 (EU B.3) | | Not established |
| 1-methoxy-2-propanol | LD ₅₀ | > 15800 | Rabbit | OECD 402 (EU B.3) | | Not established |
| 2-methyl-2H-isothiazol-3-one | LD ₅₀ | 242 | Rat | OECD 402 (EU B.3) | 24 hours | 1.9e+007 |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | LD ₅₀ | 87.12 | Rabbit | Method not given | | 4.1e+007 |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|---------|--------------------|-------------------|
| ethanol | LC ₅₀ | > 1800 | Rat | Non guideline test | 4 |
| 1-methoxy-2-propanol | LC _{Lo} | > 25.5 | Rat | OECD 403 (EU B.2) | 4 |
| 2-methyl-2H-isothiazol-3-one | LC ₅₀ | (mist) 0.11 | Rat | OECD 403 (EU B.2) | 4 hours |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | LC ₅₀ | 0.33 | Rat | | |

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) |
|--|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| ethanol | Not established | Not established | Not established | Not established |
| 1-methoxy-2-propanol | Not established | Not established | Not established | Not established |
| 2-methyl-2H-isothiazol-3-one | Not established | 15000 | Not established | Not established |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | Not established | 1.1e+006 | Not established | Not established |

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|--|--|--|--|--|
| 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | | | |
|--|--|--|--|--|

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|--------------|---------|-------------------|---------------|
| ethanol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| 1-methoxy-2-propanol | Not irritant | Rat | OECD 404 (EU B.4) | |
| 2-methyl-2H-isothiazol-3-one | Corrosive | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | Corrosive | | Method not given | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------------------|---------|-------------------|---------------|
| ethanol | Irritant | Rabbit | OECD 405 (EU B.5) | |
| 1-methoxy-2-propanol | Not corrosive or irritant | Rabbit | OECD 405 (EU B.5) | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | Severe damage | | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| ethanol | No data available | | | |
| 1-methoxy-2-propanol | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|--|-----------------|------------|---|-------------------|
| ethanol | Not sensitising | | | |
| 1-methoxy-2-propanol | Not sensitising | Guinea pig | Method not given | |
| 2-methyl-2H-isothiazol-3-one | Sensitising | Guinea pig | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | Sensitising | Guinea pig | Method not given OECD 406 (EU B.6) / GPMT | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| ethanol | No data available | | | |
| 1-methoxy-2-propanol | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 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) |
|--|---|-----------------------|-------------------|------------------|
| ethanol | No data available | | No data available | |
| 1-methoxy-2-propanol | No evidence for mutagenicity, negative test results | Method not given | 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 | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No evidence for mutagenicity | Method not given | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|--|--|
| ethanol | No data available |
| 1-methoxy-2-propanol | No evidence for carcinogenicity, negative test results |
| 2-methyl-2H-isothiazol-3-one | No data available |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 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 |
|---------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
|---------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|

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| | | | | | | | |
|--|--|--|-------------------|--|--|--|---|
| ethanol | | | No data available | | | | |
| 1-methoxy-2-propanol | | | No data available | | | | No evidence for reproductive toxicity |
| 2-methyl-2H-isothiazol-3-one | | | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | | No data available | | | | No evidence for reproductive toxicity No evidence for teratogenic effects |

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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| ethanol | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| ethanol | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| ethanol | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | 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 |
|--|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| ethanol | | | No data available | | | | | |
| 1-methoxy-2-propanol | | | No data available | | | | | |
| 2-methyl-2H-isothiazol-3-one | | | No data available | | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| ethanol | No data available |
| 1-methoxy-2-propanol | No data available |
| 2-methyl-2H-isothiazol-3-one | No data available |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available |

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STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| ethanol | No data available |
| 1-methoxy-2-propanol | Kidneys |
| 2-methyl-2H-isothiazol-3-one | No data available |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 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) |
|--|------------------|--------------|----------------------------|---------------------|-------------------|
| ethanol | LC ₅₀ | 8150 | <i>Alburnus alburnus</i> | Method not given | 96 |
| 1-methoxy-2-propanol | LC ₅₀ | > 1000 | <i>Oncorhynchus mykiss</i> | Method not given | 96 |
| 2-methyl-2H-isothiazol-3-one | LC ₅₀ | 4.77 | <i>Oncorhynchus mykiss</i> | Similar to OECD 203 | 96 |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | LC ₅₀ | 0.28 | <i>Lepomis macrochirus</i> | OECD 203 (EU C.1) | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|---------------|-----------------------------|-------------------|-------------------|
| ethanol | EC ₅₀ | 5012 | <i>Daphnia magna</i> Straus | Method not given | 48 |
| 1-methoxy-2-propanol | EC ₅₀ | 21100 - 25900 | <i>Daphnia magna</i> Straus | Method not given | 48 |
| 2-methyl-2H-isothiazol-3-one | LC ₅₀ | 0.93-1.9 | <i>Daphnia magna</i> Straus | Method not given | 48 |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | EC ₅₀ | 0.126 | <i>Daphnia magna</i> Straus | OECD 202 (EU C.2) | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|--|-------------------|-------------------|
| ethanol | EC ₅₀ | 675 | <i>Scenedesmus quadricauda</i> Not specified | Method not given | 72 |
| 1-methoxy-2-propanol | EC ₅₀ | > 1000 | <i>Pseudokirchneriella subcapitata</i> | Method not given | 168 |
| 2-methyl-2H-isothiazol-3-one | EC ₅₀ | 0.158 | <i>Selenastrum capricornutum</i> | Method not given | 72 |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | EC ₅₀ | 0.003 | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (EU C.3) | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---------------|----------|-------------------|---------|--------|----------------------|
| ethanol | | No data available | | | |

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| | | | | | |
|--|--|-------------------|--|--|--|
| 1-methoxy-2-propanol | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|--|------------------|--------------|---------------------------|------------------|---------------|
| ethanol | EC ₀ | 6500 | <i>Pseudomonas putida</i> | Method not given | 16 hour(s) |
| 1-methoxy-2-propanol | EC ₅₀ | 1000 | <i>Activated sludge</i> | Method not given | 3 hour(s) |
| 2-methyl-2H-isothiazol-3-one | EC ₂₀ | 2.8 | <i>Activated sludge</i> | OECD 209 | 3 hour(s) |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | EC ₂₀ | 0.97 | <i>Activated sludge</i> | 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 |
|--|----------|-------------------|---------|--------|---------------|------------------|
| ethanol | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|----------|-------------------|---------|--------|---------------|------------------|
| ethanol | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | 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 |
|--|----------|---------------------------|---------|--------|----------------------|------------------|
| ethanol | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | 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 |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | No data available | | | | |

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Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-------------------|---------|--------|----------------------|------------------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | No data available | | | | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | No data available | | | | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | 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 |
|--|-------------------|------------------|-------------------------|--------|
| 1-methoxy-2-propanol | < 1 day(s) | Method not given | Rapidly photodegradable | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|--|-------------------------------|--------|------------|--------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available | | | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|--|------|-------------------|--------|------------|--------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | No data available | | | |

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|--|--------------------------|-------------------|--------------------|-----------|-----------------------|
| ethanol | Activated sludge, aerobe | Oxygen depletion | > 60% in 10 day(s) | OECD 301B | Readily biodegradable |
| 1-methoxy-2-propanol | | | 96 % in 28 day(s) | OECD 301E | Readily biodegradable |
| 2-methyl-2H-isothiazol-3-one | | | | Other | Readily biodegradable |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | Oxygen depletion | > 60% | OECD 301D | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|--|---------------|-------------------|------------------|--------|-------------------|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|--|-----------------------|---------------------|--------------------|----------|-------------------|
| 2-methyl-2H-isothiazol-3-one | Surface water (fresh) | Mineralisation rate | > 50 % in 4 day(s) | OECD 309 | Biodegradable |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | | | | | No data available |

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| | | | | | |
|------------------|--|--|--|--|--|
| 220-239-6] (3:1) | | | | | |
|------------------|--|--|--|--|--|

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--|---------------|--------------------|-----------------------------------|--------|
| ethanol | -0.31 | Weight of evidence | No bioaccumulation expected | |
| 1-methoxy-2-propanol | 0.37 | Method not given | Low potential for bioaccumulation | |
| 2-methyl-2H-isothiazol-3-one | -0.32 | OECD 107 | No bioaccumulation expected | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | -0.71 - +0.75 | Method not given | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|--|-------------------|---------|--------------------|-----------------------------------|--------|
| ethanol | 0.5 | | Weight of evidence | No bioaccumulation expected | |
| 1-methoxy-2-propanol | 3.2 | | Method not given | Low potential for bioaccumulation | |
| 2-methyl-2H-isothiazol-3-one | 3.16 | | OECD 305 | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 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 |
|--|--------------------------------|-------------------------------------|--------|--------------------|-------------------------------------|
| ethanol | No data available | | | | |
| 1-methoxy-2-propanol | No data available | | | | High potential for mobility in soil |
| 2-methyl-2H-isothiazol-3-one | No data available | | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 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 30 - detergents other than those mentioned in 20 01 29.

Empty packaging**Recommendation:****Suitable cleaning agents:**Dispose of observing national or local regulations.
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:** Non-dangerous goods**14.2 UN proper shipping name:** Non-dangerous goods**14.3 Transport hazard class(es):** Non-dangerous goods**14.4 Packing group:** Non-dangerous goods**14.5 Environmental hazards:** Non-dangerous goods**14.6 Special precautions for user:** Non-dangerous goods**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Non-dangerous goods

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)
- 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

non-ionic surfactants

< 5 %

perfumes , Benzisothiazolinone, Dimethylol Glycol, Methylisothiazolinone

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Comah - 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: MSDS5168

Version: 10.0

Revision: 2022-11-28

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 3, 8, 9, 11, 12, 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:

- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H301 - Toxic if swallowed.
- H310 - Fatal in contact with skin.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H330 - Fatal if inhaled.
- H336 - May cause drowsiness or dizziness.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- EUH071 - Corrosive to the respiratory tract.

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

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- 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