

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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Eco Fluid+ 25l

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

1.1. Product identifier

Trade name/designation:

Eco Fluid+ 25l

Article No.:

T400025

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

Use of the substance/mixture:

All-purpose cleaner without abrasives

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstalzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information

| | |
|--------|---|
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction. |
|--------|---|

| | |
|--------|---|
| EUH210 | Safety data sheet available on request. |
|--------|---|

Precautionary statements Prevention

| | |
|------|---|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
|------|---|

Precautionary statements Response

| | |
|-------------|---|
| P302 + P352 | IF ON SKIN: Wash with plenty of water and soap. |
|-------------|---|

2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:

Regulation (EC) No. 648/2004 [Detergents regulation]:

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< 5% non-ionic surfactants

< 5% anionic surfactants, Preservative (Benzisothiazolinone, Octylisothiazolinone)

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|---|------------------|
| CAS No.: 26183-52-8 | Alkyl polyethoxilate Acute Tox. 4 (H302), Eye Dam. 1 (H318) Danger Specific concentration limit (SCL) Eye Dam. 1; H318: 20% ≤ C < 100% | 1 - < 5 Vol-% |
| CAS No.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6 REACH No.: 01-2120761540-60 | 1,2-benzisothiazol-3(2H)-one Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger Specific concentration limit (SCL) Skin Sens. 1; H317: C ≥ 0.05% | < 0.1 Vol-% |
| CAS No.: 26530-20-1 EC No.: 247-761-7 Index No.: 613-112-00-5 | 2-octyl-2H-isothiazol-3-one Acute Tox. 2 (H330), Acute Tox. 3 (H311, H301), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1 (H314), Skin Sens. 1A (H317) Danger EUH071 M-factor (acute): 100 M-factor (chronic): 100 Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.0015% Acute Toxicity Estimate ATE (oral): 125 mg/kg ATE (dermal): 311 mg/kg ATE (inhalation, dust/mist): 0.27 mg/L | < 0.1 Vol-% |

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

Provide fresh air.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting.

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

No further relevant information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Carbon dioxide, Extinguishing powder

Unsuitable extinguishing media:

Full water jet

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon dioxide, Carbon monoxide

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

General information: Use personal protection equipment. Avoid contact with skin, eyes and clothes.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Other information:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid contact with skin, eyes and clothes. Do not mix with other chemicals. Use personal protection equipment. Do not eat, drink or smoke when using this product.

Fire prevent measures:

No special fire protection measures are necessary.

Advices on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed.

Hints on storage assembly:

No special measures are necessary.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

There are no data available on the mixture itself.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|--|--|
| MAK (AT) | 2-octyl-2H-isothiazol-3-one CAS No.: 26530-20-1 EC No.: 247-761-7 | ① 0.05 mg/m ³ ② 0.05 mg/m ³ ⑤ (eintatembare Fraktion, Momentanwert, kann über die Haut aufgenommen werden) H, S |

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type ② Exposure route |
|--|------------------------|---|
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 6.81 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 1.2 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 0.966 mg/kg | ① DNEL worker ② Long-term - dermal, systemic effects |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 0.345 mg/kg | ① DNEL worker ② Long-term - dermal, systemic effects |
| 2-octyl-2H-isothiazol-3-one CAS No.: 26530-20-1 EC No.: 247-761-7 | 4 mg/m ³ | ① DNEL worker ② Long-term - inhalation, local effects |

| Substance name | PNEC Value | ① PNEC type |
|--|---------------|--------------------------------------|
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 0.00403 mg/L | ① PNEC aquatic, freshwater |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 0.000403 mg/L | ① PNEC aquatic, marine water |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 0.0499 mg/kg | ① PNEC sediment, freshwater |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 0.00499 mg/kg | ① PNEC sediment, marine water |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 3 mg/kg | ① PNEC soil |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 | 0.0011 mg/L | ① PNEC aquatic, intermittent release |

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

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8.2.2. Personal protection equipment

Eye/face protection:

Wear eye protection/face protection. (EN 166)

Skin protection:

Hand protection:

Tested protective gloves must be worn. (EN 374, Breakthrough time: > 10 min.)

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: $\geq 0,1$ mm

A list of suitable makes with detailed information on wearing time is available on request.

Diluted application solutions $\leq 1\%$:

Protective gloves may be dispensed with, provided equivalent protective measures are taken, taking into account increased skin exposure due to wet work (e.g. use of suitable skin protection ointments).

Body protection:

Wear suitable work clothing.

Respiratory protection:

Usually no personal respiratory protection necessary.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: blue

Odour: characteristic

Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|--|------------------------|-------|----------------------|
| pH | 9.2 - 10.2 | 20 °C | |
| Melting point | ≈ 0 °C | | |
| Freezing point | No data available | | |
| Initial boiling point and boiling range | ≈ 100 °C | | |
| Flash point | not applicable | | |
| Evaporation rate | No data available | | |
| Auto-ignition temperature | not applicable | | |
| Upper/lower flammability or explosive limits | No data available | | |
| Vapour pressure | No data available | | |
| Vapour density | No data available | | |
| Density | 1.01 g/cm ³ | | |
| Bulk density | not applicable | | |
| Water solubility | No data available | | |
| Dynamic viscosity | < 0.01 Pa* s | 25 °C | |
| Kinematic viscosity | No data available | | |
| Self ignition temperature | not applicable | | |

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

| |
|--|
| Alkyl polyethoxilate CAS No.: 26183-52-8 |
| LD₅₀ oral: 500 mg/kg (Ratte) |
| LD₅₀ dermal: >2,000 mg/kg (Ratte) |
| LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L (Ratte) |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 |
| LD₅₀ oral: 500 mg/kg (Rat) |
| LD₅₀ dermal: >2,000 mg/kg (Rat) |
| LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L |
| 2-octyl-2H-isothiazol-3-one CAS No.: 26530-20-1 EC No.: 247-761-7 |
| ATE (oral)¹: 125 mg/kg |
| ATE (dermal)¹: 311 mg/kg |
| ATE (inhalation, dust/mist)¹: 0.27 mg/L |
| LD₅₀ oral: 125 mg/kg (Rat) OECD 401 |
| LD₅₀ dermal: 311 mg/kg (Rabbit) |
| LC₅₀ Acute inhalation toxicity (dust/mist): >0.139 mg/L (Rat) OECD 402 |

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Contains 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-one. May cause allergic reactions.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

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11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

| |
|--|
| Alkyl polyethoxilate CAS No.: 26183-52-8 |
| EC₅₀ : 15 mg/L 2 d (crustaceans, Daphnia magna (Großer Wasserfloh)) OECD 202 |
| ErC₅₀ : 19.6 mg/L 3 d (Algae/water plant) OECD 201 |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 |
| LC₅₀ : >0.1 - 1 mg/L 4 d (fish) |
| EC₅₀ : >0.1 - 1 mg/L 2 d (crustaceans) |
| EC₅₀ : >0.1 - 1 mg/L 3 d (Algae/water plant) |
| 2-octyl-2H-isothiazol-3-one CAS No.: 26530-20-1 EC No.: 247-761-7 |
| LC₅₀ : 0.047 mg/L 4 d (fish, Oncorhynchus mykiss) |
| NOEC : 0.003 mg/L 21 d (crustaceans, Daphnia magna) OECD 202 |
| IC₅₀ : 9 mg/L 4 d (crustaceans) OECD 301 |
| NOEC : 0.0085 mg/L (fish, Pimephales promelas) |
| EC₅₀ : 0.32 mg/L 2 d (Algae/water plant, Daphnia magna) |
| ErC₅₀ : 0.000224 mg/L 2 d (Algae/water plant, Navicula pelliculosa) OECD 201 |
| EC₅₀ : 0.00129 mg/L 3 d (Algae/water plant, Navicula pelliculosa) OECD 201 |

12.2. Persistence and degradability

| |
|--|
| Alkyl polyethoxilate CAS No.: 26183-52-8 |
| Biodegradation : Yes, rapidly |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 |
| Biodegradation : Yes, slowly |

Biodegradation:

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3. Bioaccumulative potential

| |
|--|
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 |
| Log K_{ow} : 1.45 |

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

| |
|--|
| Alkyl polyethoxilate CAS No.: 26183-52-8 |
| Results of PBT and vPvB assessment : — |
| 1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9 |
| Results of PBT and vPvB assessment : — |
| 2-octyl-2H-isothiazol-3-one CAS No.: 26530-20-1 EC No.: 247-761-7 |
| Results of PBT and vPvB assessment : — |

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| | |
|----------|--------------------------------|
| 07 06 99 | Wastes not otherwise specified |
|----------|--------------------------------|

Waste code packaging

| | |
|----------|-------------------|
| 15 01 02 | Plastic packaging |
|----------|-------------------|

Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Non-contaminated packages may be recycled.

SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--|--|--|
| 14.1. UN number or ID number | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.3. Transport hazard class(es) | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.4. Packing group | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.5. Environmental hazards | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.6. Special precautions for user | | | |
| not relevant | not relevant | not relevant | not relevant |

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Restrictions on use (REACH, Annex XVII) Entry 75

Other regulations (EU):

This product is not assigned to a hazard category.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 30 weight-%

15.1.2. National regulations

No data available

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15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|-------------------|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| 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. |

Supplemental hazard information

| | |
|--------|-------------------------------------|
| EUH071 | Corrosive to the respiratory tract. |
|--------|-------------------------------------|

16.6. Training advice

No data available

16.7. Additional information

No data available