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

UFI:
UHPW-GC2V-QAKE-VGJA

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

Use of the substance/mixture:
All-purpose cleaner without abrasives

Relevant identified uses:

	Process categories [PROC]
PROC 13:	Treatment of articles by dipping and pouring

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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].

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2.2. Label elements

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

< 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% **Acute Toxicity Estimate** ATE (oral) 500 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	1 – < 5 %
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: 0.036% ≤ C < 100% **Acute Toxicity Estimate** ATE (oral) 500 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) 0.5 mg/L ATE (inhalation, dust/mist) 0.05 mg/L	< 0.01 %
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 **Additional information:** EUH071	< 0.0015 %

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 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

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.

SECTION 8: Exposure controls/personal protection

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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/m³ ② 0.05 mg/m³ ⑤ (einatembare 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/m³	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/m³	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/m³	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

Substance name	PNEC Value	① PNEC type
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

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: ≥ 0,1 mm
A list of suitable makes with detailed information on wearing time is available on request.
Diluted application solutions <= 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 respirative protection necessary.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: blue
Odour: characteristic
flammability: No data available

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/cm³		
Bulk density	*not applicable*		

Parameter	Value	at °C	① Method ② Remark
Water solubility	*No data available*		
Dynamic viscosity	< 10 mPa* s	25 °C	② (50 1/s)
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.

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

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

Alkyl polyethoxilate CAS No.: 26183-52-8
LD_{50} oral: 500 mg/kg (Ratte)
LD_{50} dermal: >2,000 mg/kg (Ratte)
LC_{50} 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
ATE (inhalation, vapour): 0.5 mg/L
ATE (inhalation, dust/mist): 0.05 mg/L
LD_{50} oral: 500 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} 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
LD_{50} oral: 125 mg/kg (Rat) OECD 401
LD_{50} dermal: 311 mg/kg (Rabbit)
LC_{50} 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.

11.2. Information on other hazards
No data available

SECTION 12: Ecological information

* ### 12.1. Toxicity

Alkyl polyethoxilate CAS No.: 26183-52-8
EC_{50}: 15 mg/L 2 d (crustaceans, Daphnia magna (Großer Wasserfloh)) OECD 202
ErC_{50}: 19.6 mg/L 3 d (Algae/water plant) OECD 201
ErC_{50}: 19.6 mg/L 3 d (Algae/water plant) OECD 201
EC_{50}: 15 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
EC_{50}: 15 mg/L 2 d (crustaceans) OECD 202

* ### 12.2. Persistence and degradability

Alkyl polyethoxilate CAS No.: 26183-52-8
Biodegradation: Yes, rapidly

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

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: —

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.

* ### 12.7. Other adverse effects
water hazard class 1: slightly hazardous to water

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):
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: 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

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

1.2.	Relevant identified uses of the substance or mixture and uses advised against
1.3.	Details of the supplier of the safety data sheet
2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.7.	Other adverse effects
14.3.	Transport hazard class(es)
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.7.	Additional information

* 16.2. Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
OECD	Organisation for Economic Cooperation and Development
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
PROC	Process Category
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

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

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.