Eco Paste 450g

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

1.1. Product identifier

Trade name/designation:

Eco Paste 450g

Article No.:
T207450

UFI:
U7PU-D19W-K5H8-6AG2

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

Use of the substance/mixture:
Cleaning agent

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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].

2.2. Label elements

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

Hazard statements: none

Supplemental hazard information	
EUH208	Contains Orange terpenes, orange, sweet, extract. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements Response	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

Adverse human health effects and symptoms:

Repeated exposure may cause skin dryness or cracking.
May be harmful if swallowed or if inhaled.
May cause eye irritation in sensitive individuals.

Other adverse effects:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
The mixture does not contain substances listed for endocrine disrupting properties in accordance with REACH Article 59(1) or has been determined not to contain substances with endocrine disrupting properties in a concentration equal to or greater than 0.1% in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 107-21-1 EC No.: 203-473-3 Index No.: 603-027-00-1 REACH No.: 01-2119456816-28	**ethane-1,2-diol** Acute Tox. 4 (H302) Warning **Acute Toxicity Estimate** ATE (oral) > 7,712 mg/kg ATE (dermal) 3,500 mg/kg	5 – 10 weight-%
CAS No.: 8002-13-9 EC No.: 232-299-0	**Rapeseed oil (Brassica napus)** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	1 – 5 weight-%
CAS No.: 8028-48-6 EC No.: 232-433-8 REACH No.: 01-2119493353-35	**Orange terpenes, orange, sweet, extract** Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger **Acute Toxicity Estimate** ATE (oral) 200 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, dust/mist) 500 mg/L	0.1 – < 0.25 weight-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:
Remove person to fresh air and keep comfortable for breathing.

In case of skin contact:
Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor if symptoms persist.

Following ingestion:
Rinse the mouth with water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Following ingestion: Nausea, Vomiting, Gastrointestinal complaints

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, Dry extinguishing powder, Foam

Unsuitable extinguishing media:
None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:
Carbon monoxide (CO), Carbon dioxide (CO2)

5.3. Advice for firefighters

Do not attempt to operate without suitable protective equipment. Wear self-contained breathing apparatus. Full protective clothing.

Other information: Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations. Do not allow extinguishing water to flow into waste water or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Ventilate affected area.

6.1.2. For emergency responders

Personal protection equipment:
Do not attempt to operate without suitable protective equipment.
Additional information: SECTION 8: Exposure controls/personal protection

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up:
Take up mechanically.
Other information:
Check possibility of recycling. If recycling is not possible, dispose of in accordance with local regulations.

6.4. Reference to other sections

For further information on disposal: see section 13.

6.5. Additional information

The product forms a slippery surface in combination with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Ensure good ventilation/extraction at the workplace.

Advices on general occupational hygiene

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:
Store in a well-ventilated place. Keep container tightly closed.
Provide a lye-resistant floor.
Hints on storage assembly:
Do not store together with: strong acids, Oxidizing agent
Storage class (TRGS 510, Germany): 10 - 13 – Other combustible and non-combustible substances
Further information on storage conditions:
storage temperature: 15°C - 30°C
Does not involve any particular fire or explosion hazard.

7.3. Specific end use(s)

Recommendation:
No further relevant information available.

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)	**ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3	① 10 ppm (26 mg/m³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3	② 20 ppm (52 mg/m³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
IOELV (EU)	**ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m³) ② 40 ppm (104 mg/m³) ⑤ (may be absorbed through the skin)

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
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	35 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	7 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	106 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	53 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	31.1 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	7.78 mg/m³	① DNEL worker ② Acute - inhalation, local effects
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	8.89 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	4.44 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	0.929 mg/cm²	① DNEL worker ② Acute - dermal, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	4.44 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	10 mg/L	① PNEC aquatic, freshwater
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	1 mg/L	① PNEC aquatic, marine water
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	37 mg/kg	① PNEC sediment, freshwater
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	3.7 mg/kg	① PNEC sediment, marine water
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	1.53 mg/kg	① PNEC soil
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	10 mg/L	① PNEC aquatic, intermittent release
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	5.4 mg/kg	① PNEC aquatic, freshwater
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	0.54 mg/kg	① PNEC aquatic, marine water
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	2.1 mg/kg	① PNEC sewage treatment plant
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	1.3 mg/L	① PNEC sediment, freshwater
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	0.13 mg/L	① PNEC sediment, marine water
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	0.261 mg/kg	① PNEC soil
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	5.77 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure good ventilation/extraction at the workplace.

8.2.2. Personal protection equipment

Eye/face protection:
Wear safety goggles that protect against splashes.

Skin protection:
Hand protection:
Protective gloves. Please follow the manufacturer's instructions for permeability and breakthrough time. The choice of a suitable glove depends not only on the material, but also on other quality features that vary from manufacturer to manufacturer.

Body protection:
Protective work clothing (e.g. safety shoes EN ISO 20345, long-sleeved work clothing).

Respiratory protection:
Normally not required.

Thermal hazards:
No further relevant information available.

8.2.3. Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid
Colour: white
Odour: characteristic
flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	10	
Melting point	*No data available*	
Freezing point	*No data available*	
Initial boiling point and boiling range	*No data available*	
Evaporation rate	*No data available*	
Vapour pressure	*No data available*	
Density	≈ 1.7 g/cm³	
Bulk density	*No data available*	
Water solubility	very soluble	

particle characteristics:
No data available

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport.

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

None under the recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
strong acids, Oxidizing agent

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

ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	
LD_{50} oral: >7,712 mg/kg (Rat)	
LD_{50} dermal: 3,500 mg/kg	
Orange terpenes, orange, sweet, extract CAS No.: 8028-48-6 EC No.: 232-433-8	
LD_{50} oral: 200 mg/kg (Rat)	
LD_{50} dermal: >5,000 mg/kg (Rat)	
LC_{50} Acute inhalation toxicity (dust/mist): 500 mg/L 4 h (Rat)	

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

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.

11.2. Information on other hazards

Endocrine disrupting properties:
No further relevant information available.

Other information:
No further relevant information available.

SECTION 12: Ecological information

12.1. Toxicity

ethane-1,2-diol	CAS No.: 107-21-1 EC No.: 203-473-3
LC_{50}: >72,860 mg/L (fish, Pimephales promelas)	
EC_{50}: >100 mg/L (crustaceans, Daphnia magna)	
EC_{50}: 6,500 – 13,000 mg/L 4 d (Algae/water plant)	
EC_{50}: 100 mg/L	
NOEC: ≥1,000 mg/L 21 d (crustaceans, Americamysis bahia)	
NOEC: 8,590 mg/L (crustaceans, Chronic Crustacea)	
NOEC: 15,380 mg/L (fish)	
Orange terpenes, orange, sweet, extract	CAS No.: 8028-48-6 EC No.: 232-433-8
LC_{50}: 0.7 mg/L 4 d (fish, Pimephales promelas) OECD 203	
EC_{50}: 0.67 mg/L 2 d (crustaceans, Daphnia magna) OECD 202	
NOEC: 72 – 83.4 mg/L 28 d OECD 301 B	
ErC_{50}: 150 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201	

Aquatic toxicity:
No further relevant information available.

Assessment/classification:
No further relevant information available.

12.2. Persistence and degradability

ethane-1,2-diol	CAS No.: 107-21-1 EC No.: 203-473-3
Biodegradation: Yes, rapidly	
Remark: Readily biodegradable (according to OECD criteria).	
Orange terpenes, orange, sweet, extract	CAS No.: 8028-48-6 EC No.: 232-433-8
Biodegradation: Yes, rapidly	

Abiotic degradation:
No further relevant information available.

Biodegradation:
No further relevant information available.

12.3. Bioaccumulative potential

ethane-1,2-diol	CAS No.: 107-21-1 EC No.: 203-473-3
Log K_{OW}: -1.36	
Bioconcentration factor (BCF): 10	
Orange terpenes, orange, sweet, extract	CAS No.: 8028-48-6 EC No.: 232-433-8
Log K_{OW}: > 4	

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

ethane-1,2-diol	CAS No.: 107-21-1 EC No.: 203-473-3
Results of PBT and vPvB assessment: —	
Rapeseed oil (Brassica napus)	CAS No.: 8002-13-9 EC No.: 232-299-0
Results of PBT and vPvB assessment: —	
Orange terpenes, orange, sweet, extract	CAS No.: 8028-48-6 EC No.: 232-433-8
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
No further relevant information available.

12.7. Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.2. Additional information
Waste codes should be assigned by the user, preferably in consultation with the waste management authorities.

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
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation
Authorisations:
Does not contain a substance subject to the restrictions of Annex XVII of REACH. Does not contain a REACH candidate substance. Does not contain a substance listed in REACH Annex XIV. Does not contain any substance subject to Regulation (EU) 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals. Does not contain any substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants. Does not contain any substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 concerning the placing on the market and use of precursors to explosives.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:
Volatile organic compounds (VOC) content in percent by weight: 1 weight-%

15.1.2. National regulations
No data available

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

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16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
8.1.	Control parameters
16.1.	Indication of changes

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
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
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
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	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

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.