

Safety Data Sheet

according to UK REACH Regulation

ESD UniClean

Revision date: 13.10.2022

Product code: 090606

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

1.1. Product identifier

ESD UniClean

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

Use of the substance/mixture

Professional cleaners for industrial use

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|-------------------------------|---------------------------|
| Company name: | kolb Cleaning Technology GmbH | |
| Street: | Karl-Arnold-Str. 12 | |
| Place: | D-47877 Willich | |
| Telephone: | +49-2154-947938 | Telefax: +49-2154-947947 |
| e-mail: | info@kolb-ct.com | |
| Contact person: | Herr Linker | Telephone: +49-2324-97980 |
| e-mail: | christian.linker@kolb-ct.com | |
| Internet: | www.kolb-ct.com | |
| Responsible Department: | Labor/ QS | |

1.4. Emergency telephone

number:

+49/ (0) 23 24/ 979817 (EU)
+61 4 19 809 805 (Australia)
+1 970 443 9233 (USA)
Schweiz: 145

Further Information

| | |
|-------------------------------------|---------------------|
| Australia: | USA: |
| kolb Cleaning Technology AP PTY LTD | kolb USA LLC |
| 6/150 Canterbury Road | 410 Sunset, Unit C |
| NSW 2200 Bankstown | 80501 Longmont – CO |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

GB CLP Regulation

Special labelling of certain mixtures

EUH208 Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.

Additional advice on labelling

UFI: E6G0-R0XM-300K-WXA4

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Cleaner on the basis of (according to EC Detergents Regulation 648/2004): nonionic surfactants < 5 %; alcohols, glycols, color and fragrances

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|----------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 1- < 5 % |
| | 200-661-7 | 603-117-00-0 | | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |
| 68154-97-2 | Alcohols, C10-12, ethoxylated propoxylated | | | 1 - < 5 % |
| | 935-890-8 | | | |
| | Eye Irrit. 2; H319 | | | |
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve | | | 1- < 5 % |
| | 203-905-0 | 603-014-00-0 | | |
| | Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H302 H315 H319 | | | |
| 138-86-3 | dipentene; limonene | | | 0.1 - < 1 % |
| | 205-341-0 | 601-029-00-7 | | |
| | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H400 H410 | | | |
| 97-54-1 | isoeugenol | | | < 0.1 % |
| | 202-590-7 | 604-094-00-X | | |
| | Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A; H312 H302 H315 H319 H317 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|--|--|-----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 68154-97-2 | 935-890-8 | Alcohols, C10-12, ethoxylated propoxylated | 1 - < 5 % |
| | oral: LD50 = >2000 mg/kg | | |
| 111-76-2 | 203-905-0 | 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve | 1- < 5 % |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE 1200 mg/kg | | |
| 97-54-1 | 202-590-7 | isoeugenol | < 0.1 % |
| | dermal: ATE = 1100 mg/kg; oral: LD50 = 1560 mg/kg Skin Sens. 1A; H317: >= 0,01 - 100 | | |

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % non-ionic surfactants, perfumes (Citral).

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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After ingestion

Rinse mouth immediately and drink plenty of water.

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

No 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, Carbon dioxide (CO₂), Foam, Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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

General advice

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

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

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe gas/fumes/vapour/spray.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

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Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|-----------------|-----|-------------------|-----------|---------------|--------|
| 111-76-2 | 2-Butoxyethanol | 25 | 123 | | TWA (8 h) | WEL |
| | | 50 | 246 | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|----------|-----------------|--------------------------------|--------------|---------------|---------------|
| 111-76-2 | 2-Butoxyethanol | butoxyacetic acid (creatinine) | 240 mmol/mol | urine | Post shift |

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|--------|
| Physical state: | Liquid |
| Colour: | blue |
| Odour: | Lemon |

Changes in the physical state

| | |
|---|--------------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flash point: | [see also 9.2] °C |

Flammability

| | |
|---------------|----------------|
| Solid/liquid: | not applicable |
|---------------|----------------|

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| | |
|--|-------------------------|
| Gas: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Auto-ignition temperature: | 425 °C |
| Self-ignition temperature | |
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |
| pH-Value (at 20 °C): | 7 |
| Viscosity / dynamic: (at 20 °C) | 21 mPa·s |
| Water solubility: | easily soluble |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: (at 20 °C) | not determined |
| Density (at 25 °C): | 0,979 g/cm ³ |
| Relative vapour density: | not determined |

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties

Not oxidising.

Other safety characteristics

Solid content:

not determined

Evaporation rate:

not determined

Further Information

not subject to the requirements of § 4 of the Hazardous Substances Ordinance (GefStoffV)

SECTION 10: Stability and reactivity

10.1. Reactivity

not known

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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 GB CLP Regulation

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Acute toxicity

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

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|------------|--|------------------|---------|----------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 68154-97-2 | Alcohols, C10-12, ethoxylated propoxylated | | | | |
| | oral | LD50 >2000 mg/kg | Ratte | OECD 401 | |
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve | | | | |
| | oral | ATE 1200 mg/kg | | | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 97-54-1 | isoeugenol | | | | |
| | oral | LD50 1560 mg/kg | | | |
| | dermal | ATE 1100 mg/kg | | | |

Irritation and corrosivity

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

Sensitising effects

Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| CAS No | Chemical name | | | | | |
|------------|--|--------------------|-----------|------------------------------------|-----------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 68154-97-2 | Alcohols, C10-12, ethoxylated propoxylated | | | | | |
| | Acute algae toxicity | ErC50 >1-10 mg/l | 72 h | Desmodesmus subspicatus (Grünalge) | OECD 201 | |
| | Acute crustacea toxicity | EC50 >1-10 mg/l | 48 h | Daphnia magna (Großer Wasserfloh) | OECD 202 | |
| | Acute bacteria toxicity | (EC50 >10000 mg/l) | 0 h | Pseudomonas subspicatus (Grünalge) | ISO 10712 | |
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve | | | | | |
| | Acute fish toxicity | LC50 1490 mg/l | 96 h | Lepomis macrochirus | | |

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12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | Method | Value | d | Source |
|------------|--|------------|-------|----|---------------|
| | | Evaluation | | | |
| 68154-97-2 | Alcohols, C10-12, ethoxylated propoxylated | | >70% | 28 | OECD TG 301 A |
| | leicht biologisch abbaubar | | | | |
| | | | >60% | 28 | OECD TG 301 B |
| | leicht biologisch abbaubar | | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|--|-------------|
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve | 0,81 (25°C) |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

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

No information available.

Further information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

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Marine transport (IMDG)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

2010/75/EU (VOC): 1 % (9,79 g/l)

2004/42/EC (VOC): 1 % (9,79 g/l)

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.



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| | |
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| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH208 | Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)