

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



Article No.: 516000  
Print date: 09.09.2019  
Version: 1.27

Eco Cleaner  
Revision date: 09.09.2019  
Issue date: 09.09.2019

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 516000  
Trade name/designation Eco Cleaner

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

**Relevant identified uses:**

Cleaning agent.

1.3. **Details of the supplier of the safety data sheet**

**Manufacturer/supplier**

Heinrich König & Co.KG  
An der Rosenhelle 5  
D-61138 Niederdorfelden

Telephone: +49 6101 5360 0

Telefax: +49 6101 5360 11

**Dept. responsible for information:**

Laboratory

Telephone: +49 6101 5360 71

Only available during office hours:

Mon - Thurs 08:00 to 16:00

Friday 08:00 - 12:30

E-mail (competent person)

SDB@heinrich-koenig.de

1.4. **Emergency telephone number**

Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK

GmbH +49 (0)6132-84463

**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 hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226

Flammable liquids

Flammable liquid and vapour.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

2.2. **Label elements**

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

**Hazard pictograms**



Warning

**Hazard statements**

H226

Flammable liquid and vapour.

H319

Causes serious eye irritation.

**Precautionary statements**

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P370 + P378

In case of fire: Use foam to extinguish.

P403 + P235

Store in a well-ventilated place. Keep cool.

**Hazard components for labelling**

No further relevant information available.

**Supplemental Hazard information (EU)**

No further relevant information available.

2.3. **Other hazards**

No information available.

**SECTION 3: Composition / information on ingredients**

3.2. **Mixtures**

**Description** Cleaner, solvent-based

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

**EC No.**

**REACH No.**

**CAS No.**

**Designation**

**Wt %**

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INDEX No.	classification // Remark	
200-578-6	01-2119457610-43-xxxx	
64-17-5	Ethanol	7 < 10
603-002-00-5	Flam. Liq. 2 H225 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 50	
259-217-6	01-2119492545-29-xxxx	
54549-24-5	Hexyl D-glucoside Eye Dam. 1 H318	1 < 2,5
160875-66-1	Poly (ethylene oxide) mono-2-propylheptyl ether Eye Dam. 1 H318	1 < 2,5

**Additional information**

Full text of classification: see section 16

**Labelling for contents according to regulation (EC) No. 648/2004:**

Wt %	Ingredient
< 5 %	nonionic surfactant
5 < 15 %	organic solvents
< 5 %	EDTA

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

**5.2. Special hazards arising from the substance or mixture**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

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Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limit values:**

Ethanol

INDEX No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

TWA: 1920 mg/m<sup>3</sup>; 1000 ppm

**Additional information**

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

**DNEL:**

Hexyl D-glucoside

EC No. 259-217-6 / CAS No. 54549-24-5

DNEL long-term dermal (systemic), Workers: 595000 mg/kg

DNEL long-term inhalative (systemic), Workers: 420 mg/m<sup>3</sup>

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DNEL long-term oral (repeated), Consumer: 35,7 mg/kg  
DNEL long-term dermal (systemic), Consumer: 357000 mg/kg  
DNEL long-term inhalative (systemic), Consumer: 124 mg/m<sup>3</sup>

Ethanol

INDEX No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

DNEL long-term dermal (systemic), Workers: 343 mg/kg  
DNEL acute inhalative (local), Workers: 1900 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 950 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 87 mg/kg  
DNEL acute dermal, short-term (systemic), Consumer: 950 mg/kg  
DNEL long-term dermal (systemic), Consumer: 206 mg/kg  
DNEL acute inhalative (local), Consumer: 950 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 114 mg/m<sup>3</sup>

**PNEC:**

Hexyl D-glucoside

EC No. 259-217-6 / CAS No. 54549-24-5

PNEC aquatic, freshwater: 0,176 mg/l  
PNEC aquatic, marine water: 0,0176 mg/l  
PNEC aquatic, intermittent release: 4,2 mg/l  
PNEC sediment, freshwater: 0,722 mg/kg  
PNEC sediment, marine water: 0,072 mg/kg  
PNEC, soil: 0,654 mg/kg  
PNEC sewage treatment plant (STP): 100 mg/l  
PNEC Secondary Poisoning: 111,11 mg/kg

Ethanol

INDEX No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

PNEC aquatic, freshwater: 0,96 mg/l  
PNEC aquatic, marine water: 0,79 mg/l  
PNEC aquatic, intermittent release: 2,75 mg/l  
PNEC sediment, freshwater: 3,6 mg/kg  
PNEC sediment, marine water: 2,9 mg/kg  
PNEC, soil: 0,63 mg/kg  
PNEC sewage treatment plant (STP): 580 mg/l  
PNEC Secondary Poisoning: 0,72 mg/kg

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:**

**Physical state:** Liquid  
**Colour:** reddish transparent

**Odour:** characteristic

**Odour threshold:** not determined

**pH at 20 °C:** N.A.

**Melting point/freezing point:** not determined

**Initial boiling point and boiling range:** 78 °C  
Method: calculated.  
Source: Ethanol

**Flash point:** 45 °C  
Method: EN ISO 2719

**Evaporation rate:** not determined

**flammability**

**Burning time (s):** not determined

**Upper/lower flammability or explosive limits:**

**Lower explosion limit:** 3,47 Vol-%  
Method: calculated.

**Upper explosion limit:** 15 Vol-%  
Method: calculated.  
Source: Ethanol

**Vapour pressure at 20 °C:** 8,1636 mbar  
Method: calculated.

**Vapour density:** not determined

**Relative density:**

**Density at 20 °C:** 0,99 g/cm<sup>3</sup>  
Method: calculated.

**Solubility(ies):**

**Water solubility (g/L) at 20 °C:** miscible

**Partition coefficient: n-octanol/water:** see section 12

**Auto-ignition temperature:** not determined

**Decomposition temperature:** not determined

**Viscosity at 20 °C:** 10 s 4 mm  
Method: DIN 53211

**Explosive properties:** not determined

**Oxidising properties:** not determined

### 9.2. Other information

**Solid content (%):** 3,49 Wt %

**solvent content:**

**Organic solvents:** 10 Wt %

**Water:** 86 Wt %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

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**10.4. Conditions to avoid**

Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5. Incompatible materials**

not applicable

**10.6. Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

**SECTION 11: Toxicological information**

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

**11.1. Information on toxicological effects**

**Acute toxicity**

Hexyl D-glucoside

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

Based on available data the classification criteria are not met.

Poly (ethylene oxide) mono-2-propylheptyl ether

dermal, LD50, Rabbit: > 0 mg/kg 2000 - 5000 mg/kg

Based on available data the classification criteria are not met.

Ethanol

oral, LD50, Rat: 10470 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 51 mg/l (4 h)

Method: OECD 403

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

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes serious eye irritation.

Hexyl D-glucoside

eyes

Causes serious eye irritation.

Poly (ethylene oxide) mono-2-propylheptyl ether

eyes

Causes serious eye damage.

Ethanol

eyes

Causes serious eye irritation.

**Respiratory or skin sensitisation**

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

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

**STOT-single exposure; 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.

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties**

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The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not allow to enter into surface water or drains.

### 12.1. Toxicity

Hexyl D-glucoside

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/l (96 h)  
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 100 mg/l (48 h)  
Algae toxicity, EC50, Scenedesmus quadricauda: > 100 (72 h)  
Based on available data the classification criteria are not met.

Poly (ethylene oxide) mono-2-propylheptyl ether

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 0 mg/l 10 - 100 mg/l (96 h)  
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 0 mg/l 10 - 100 mg/l (48 h)  
Algae toxicity, Algae: > 0 mg/l 10 - 100 mg/l (72 h)  
Based on available data the classification criteria are not met.

Ethanol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 15300 mg/l (96 h)  
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 12340 mg/l (48 h)  
Algae toxicity, ErC50, Chlorella vulgaris: 275 mg/l (72 h)  
Method: OECD 201  
Bacteria toxicity, EC50, Pseudomonas putida: 5800 mg/l (4 h)  
Based on available data, the classification criteria are not met.

### Long-term Ecotoxicity

Hexyl D-glucoside

Daphnia toxicity, NOEC, Daphnia pulex (water flea) 1 - 10 mg/l (21 D)  
Based on available data the classification criteria are not met.

### 12.2. Persistence and degradability

Ethanol

Biodegradation, aerobic.: 97 % (28 D)  
Readily biodegradable (according to OECD criteria).

### 12.3. Bioaccumulative potential

Ethanol

Partition coefficient: n-octanol/water: -0,35

### Bioconcentration factor (BCF)

Ethanol

Bioconcentration factor (BCF): 0,66  
No indication of bioaccumulation potential.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. 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. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### List of proposed waste codes/waste designations in accordance with EWC

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

#### Appropriate disposal / Package

\*

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**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

- 14.1. **UN number** \*  
UN 1170
- 14.2. **UN proper shipping name** \*  
Land transport (ADR/RID): Ethanol solution  
Sea transport (IMDG): ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
Air transport (ICAO-TI / IATA-DGR): Ethanol solution
- 14.3. **Transport hazard class(es)**  
3
- 14.4. **Packing group**  
III
- 14.5. **Environmental hazards**  
Land transport (ADR/RID) No further relevant information available.  
Marine pollutant No further relevant information available.
- 14.6. **Special precautions for user** \*  
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
Advices on safe handling: see parts 6 - 8
- Further information**
- Land transport (ADR/RID)**  
tunnel restriction code D/E
- Sea transport (IMDG)**  
EmS-No. F-E, S-E
- 14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**  
not applicable

**SECTION 15: Regulatory information**

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**
- Directive 2010/75/EU on industrial emissions**  
VOC-value (in g/L): 103,251
- National regulations**
- Restrictions of occupation**  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

- 15.2. **Chemical Safety Assessment**  
**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
200-578-6 64-17-5	Ethanol	01-2119457610-43-xxxx
259-217-6 54549-24-5	Hexyl D-glucoside	01-2119492545-29-xxxx

**SECTION 16: Other information**

**Full text of classification in section 3**

Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour.  
Eye Dam. 1 / H318 Serious eye damage/eye irritation Causes serious eye damage.

**Classification procedure**

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



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Flam. Liq. 3 Flammable liquids On basis of test data.  
Eye Irrit. 2 Serious eye damage/eye irritation Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version