

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 06.12.2014

Version number 3

Revision: 18.09.2014

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

· **1.1 Product identifier**

- **Trade name:** *Glass cleaner concentrate RM 500*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *Glass Cleaner*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

*Alfred Kärcher GmbH & Co. KG
Alfred-Kärcher-Str. 28-40
D - 71364 Winnenden*

*Postfach 160
D - 71349 Winnenden*

*Tel.: +49-7195-14-0
Fax : +49-7195-14-2212*

www.karcher.com

Distributor:

*Kaercher (UK) Ltd.
Kaercher House
Beaumont Road
Banbury
Oxon OX16 1TB
Great Britain*

*Tel.: +44-1295-752-000
Fax : +44-1295-266-436*

· **Further information obtainable from:**

*Department PDE-D
Tel.: +49-7195-14-2398
Fax : +49-7195-14-3164
safetydata@karcher.com*

· **1.4 Emergency telephone number:** *Tel.: 0049 30 30686 790 Giftnotruf Berlin*

* **SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Eye Irrit. 2 H319 Causes serious eye irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable**

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS07

· Signal word Warning

· Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

P102 Keep out of reach of children.

P280 Wear eye protection / face protection.

P264 Wash hands thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

· 2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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

· 3.2 Chemical characterisation: Mixtures

· Description:

Cleaning agent

Mixture of substances listed below with non-hazardous additions.

· Dangerous components:

CAS: 67254-71-1 EC number: 931-952-3	alcohols, C10-12, ethoxylated (<5 - <15 EO) ☒ Xn R22; ☒ Xi R41 ☒ Eye Dam. 1, H318; ☒ Acute Tox. 4, H302	< 3.0%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 02-2119752543-38-XXXX	propan-2-ol ☒ Xi R36; ☐ F R11 R67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	< 3.0%

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- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

non-ionic surfactants

< 5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Rinse with warm water.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **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**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- **6.4 Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.

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- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

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

- **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm
	Long-term value: 999 mg/m ³ , 400 ppm

· **DNELs**

67-63-0 propan-2-ol

Oral	DNEL	26 mg/kg*d (consumer)
Dermal	DNEL	888 mg/kg*d (employee)
		319 mg/kg*d (consumer)
Inhalative	DNEL	500 mg/m ³ (employee)
		89 mg/m ³ (consumer)

· **8.2 Exposure controls**

· **Personal protective equipment**

- **General protective and hygienic measures** Wash hands before breaks and at the end of work.

- **Respiratory protection:** Not necessary if room is well-ventilated.

- **Protection of hands:** Not required.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling.

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*** SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties
· General Information
· Appearance:
Form: Fluid
Colour: Colourless
· Odour: Characteristic
· Odour threshold: Not determined.
· pH-value at 20 °C: 10.3
· pH-value 1 %: 9
· Change in condition
Melting point/Melting range: 0 °C
Boiling point/Boiling range: 100 °C
· Flash point: > 100 °C
· Flammability (solid, gaseous) Not applicable.
· Ignition temperature: not applicable
· Decomposition temperature: Not determined.
· Self-igniting: Product is not selfigniting.
· Danger of explosion: Product does not present an explosion hazard.
· Explosion limits:
Lower: Not determined.
Upper: Not determined.
· Vapour pressure: Not determined.
· Density at 20 °C: 0.994 g/cm ³
· Relative density Not determined.
· Vapour density Not determined.
· Evaporation rate Not determined.
· Solubility in / Miscibility with Water: Fully miscible
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity:
dynamic at 20 °C: 3 mPas
kinematic: Not determined.
· Solvent content:
Organic solvents: 1.5 %
VOC (EC) 1.50 %
Solids content: 2.0 %
· 9.2 Other information No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** corresponds to 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

67254-71-1 alcohols, C10-12, ethoxylated (<5 - <15 EO)

Dermal	LD50	> 2000 mg/kg (can)
Inhalative	LC50	> 300-2000 mg/kg (Rat)

67-63-0 propan-2-ol

Dermal	LD50	12800 mg/kg (can)
		12800 mg/kg (rabbit)
Inhalative	LC50	5280 mg/kg (Rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

67-63-0 propan-2-ol

EC10/18 h	> 1000 mg/l (<i>Pseudomonas putida</i>) (DIN 38412)
EC50/48 h	13299 mg/l (<i>Daphnia magna</i>)
EC50/72 h	> 1000 mg/l (<i>Desmodesmus subspicatus</i>)
LC50/96 h	9640 mg/l (<i>Pimephales promelas</i>)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **CSB-value:** 108000 mg/l

- **General notes:**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them,

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at their direct request or at the request of a detergent manufacturer.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

*** SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

· **European waste catalogue**

07 06 01*	aqueous washing liquids and mother liquors
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· **Uncleaned packaging:**

· **Recommendation:** Non contaminated packagings may be recycled.

· **Recommended cleansing agents:** Water, if necessary together with cleaning agents.

*** SECTION 14: Transport information**

· **14.1 UN-Number**

· ADR, ADN, IMDG, IATA	Void
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· **14.2 UN proper shipping name**

· ADR, ADN, IMDG, IATA	Void
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· **14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA	Void
· Class	

· **14.4 Packing group**

· ADR, IMDG, IATA	Void
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· **14.5 Environmental hazards:**

· Marine pollutant:	No
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· **14.6 Special precautions for user**

Not applicable.

· **14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

Not dangerous according to the above specifications.
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- **UN "Model Regulation":** -

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. A product information sheet can be provided if requested.

- **Relevant phrases**
 - H225 Highly flammable liquid and vapour.
 - H302 Harmful if swallowed.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - R11 Highly flammable.
 - R22 Harmful if swallowed.
 - R36 Irritating to eyes.
 - R41 Risk of serious damage to eyes.
 - R67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS: PDE-D**

- **Contact:**

Department PDE-D
Tel.: +49-7195-14-2398
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- **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 Harmonised 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 (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· * **Data compared to the previous version altered.**

· 0.011-373.0 RM 500/7.2 1.894

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