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according to 1907/2006/EC, Article 31

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

· **1.1 Product identifier**

· **Trade name: Window cleaner concentrate RM 503**
· **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** Detergent

· **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

· **Further information obtainable from:**
Department PCD-D
Tel.: +49-7195-14-2548
Fax : +49-7195-14-3164
safetydata@karcher.com
· **1.4 Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

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· ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterisation: Mixtures***
· ***Description:*** *Cleaning agent*

· ***Dangerous components:***

CAS: 107-98-2 *EINECS: 203-539-1* *Index number: 603-064-00-3* *Reg.nr.: 01-2119457435-35-XXXX*	*1-methoxypropan-2-ol* *Flam. Liq. 3, H226; STOT SE 3, H336*	*10-20%*
CAS: 67-63-0 *EINECS: 200-661-7* *Index number: 603-117-00-0* *Reg.nr.: 01-2119457558-25-xxxx*	*propan-2-ol* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336*	*5-<10%*

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

cationic surfactants, non-ionic surfactants	*<5%*

· ***Additional information*** *For the wording of the listed hazard phrases refer to section 16.*

*

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*** *Generally the product does not irritate the skin.*
· ***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.*

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· ***Additional information***
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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***
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

*

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling*** *No special precautions are necessary if used correctly.*
· ***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:***
Keep away from food, beverages and feed.
· ***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:***	
107-98-2 1-methoxypropan-2-ol	
IOELV	*Short-term value: 568 mg/m³, 150 ppm* *Long-term value: 375 mg/m³, 100 ppm* *Skin*

· ***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/m3 (employee)*

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		89 mg/m3 (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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye protection:*** *Goggles recommended during refilling.*

*
SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Colour:	*Yellow*
· ***Odour:***	*citrus-like*
· ***Odour threshold:***	*Not determined.*
· ***pH-value at 20 °C:***	*5.4*
· ***pH-value 1 %:***	*5*
· ***Change in condition***	
Melting point/freezing point:	*-5 °C*
Initial boiling point and boiling range:	*100 °C*
· ***Flash point:***	*37 °C* *Does not support burning*
· ***Flammability (solid, gaseous)***	*Not applicable.*
· ***Ignition temperature:***	*not applicable*
· ***Decomposition temperature:***	*Not determined.*
· ***Auto-ignition temperature:***	*Product is not selfigniting.*
· ***Explosive properties:***	*Product does not present an explosion hazard.*
· ***Explosion limits:***	
Lower:	*Not determined.*
Upper:	*Not determined.*
· ***Vapour pressure at 20 °C:***	*12 hPa*

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· **Density at 20 °C:**	0.984 g/cm³
· **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:	19.9 %
VOC (EC)	19.90 %
Solids content:	2.1 %
· **9.2 Other information**	No further relevant information available.
· **Additional information**	Does not support burning

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

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
107-98-2 1-methoxypropan-2-ol		
Inhalative	LC50	4,016 mg/kg (Rat)
67-63-0 propan-2-ol		
Dermal	LD50	12,800 mg/kg (can)
		12,800 mg/kg (rabbit)
Inhalative	LC50	5,280 mg/kg (Rat)
66455-15-0 alcohol C13-C14 poly (>5-20EO)ethoxylate		
Dermal	LD50	>2,000 mg/kg (Rat)

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Inhalative	*LC50*	*>200-2,000 mg/kg (Rat)*

· ***Primary irritant effect:***
· ***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.*
· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***
· ***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.*

*
SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
67-63-0 propan-2-ol	
LC50/96 h	*9,640 mg/l (Pimephales promelas)*
EC50/48 h	*13,299 mg/l (Daphnia magna)*
EC50/72 h	*>1,000 mg/l (Desmodesmus subspicatus)*
EC10/18 h	*>1,000 mg/l (Pseudomonas putida) (DIN 38412)*

· ***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:***
· ***COD-value:*** *526.000 mg/l*
· ***General notes:***
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.

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

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

SECTION 14: Transport information

· **14.1 UN-Number** · **ADR, ADN, IMDG, IATA**	*Void*
· **14.2 UN proper shipping name** · **ADR, ADN, IMDG, IATA**	*Void*
· **14.3 Transport hazard class(es)** · **ADR, ADN, IMDG, IATA** · **Class**	*Void*
· **14.4 Packing group** · **ADR, IMDG, IATA**	*Void*
· **14.5 Environmental hazards:** · **Marine pollutant:**	*No*
· **14.6 Special precautions for user**	*Not applicable.*
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	*Not applicable.*
· **UN "Model Regulation":**	*Void*

*

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*

· **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.*

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.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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· ***Department issuing SDS:*** *PCD-D*
· ***Contact:***
Department PCD-D
Tel.: +49-7195-14-2548
Fax : +49-7195-14-3164
safetydata@karcher.com
· ***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
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· **** Data compared to the previous version altered.***

· *0·011-397·0 / RM 503/6 / 2068*