

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 27.09.2005

Reviewed on 27.09.2005

### 1 Identification of substance:

· **Product details:**

- **Trade name:** RM 724 Window cleaner
- **Application of the substance / the preparation** Glass Cleaner

· **Manufacturer/Supplier:**

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

Postfach 160  
 71349 Winnenden  
 Germany

Tel.: 0049-7195-14-0  
 Fax : 0049-7195-14-2212

Internet: [www.karcher.com](http://www.karcher.com)

· **Further information obtainable from:**

Department PND-D  
 Tel.: 0049-7195-14-2548  
 Fax : 0049-7195-14-3164

- **Information in case of emergency:** Tel.: 0049-30-19240



### 2 Composition/Data on components:

· **Chemical characterization**

· **Description:**

Cleaning agent  
 Mixture of substances listed below with non-hazardous additions.

· **Dangerous components:**

CAS: 67-63-0	propan-2-ol	 Xi,  F; R 11-36-67	10-<25%
EINECS: 200-661-7			

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

### 3 Hazard identification

- **Hazard description:** not applicable

- **Information concerning to particular hazards to man and environment** not applicable

· **Classification system**

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

· **Additional information:**

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

### 4 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.  
 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.

### 5 Fire fighting measures

- **Suitable extinguishing agents**

Water spray

(Contd. on page 2)

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 27.09.2005

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**Trade name: RM 724 Window cleaner**

(Contd. of page 1)

- Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** Mount respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
  - Prevent seepage into sewage system, workpits and cellars.
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Keep receptacle tightly sealed.
  - Protect from heat and direct sunlight.
  - Store under lock and key and out of the reach of children.
- **Storage class VCI storage class:** 12

### 8 Exposure controls and personal protection gear

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

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

#### 67-63-0 propan-2-ol

OELV (Ireland)	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm Sk
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / fumes / aerosols.
  - Avoid contact with the eyes.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** Rubber gloves
- **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.
- **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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(Contd. on page 3)

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## According to 91/155 EEC

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(Contd. of page 2)

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Blue
<b>Odour:</b>	Characteristic

#### · Change in condition

**Boiling point/Boiling range:** 82°C

· **Flash point:** 33°C

· **Ignition temperature:** 425°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

<b>Lower:</b>	2.0 Vol %
<b>Upper:</b>	12.0 Vol %

· **Vapour pressure at 20°C:** 43.0 hPa

· **Density at 20°C:** 0.98 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with

**Water:** Fully miscible

· **pH-value at 20°C:** 10  
1 % 9

#### · Viscosity:

**dynamic at 20°C:** 4 mPas

#### · Solvent content:

<b>Organic solvents:</b>	12.0 %
<b>Water:</b>	86.9 %

· **Solids content:** 0.4 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:** No dangerous decomposition products known

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### 12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is biodegradable.

(Contd. on page 4)

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## According to 91/155 EEC

Printing date 27.09.2005

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Trade name: **RM 724 Window cleaner**

(Contd. of page 3)

- **Ecotoxicological effects:**

- **Other information:**

COD value (solution in tap water 20 °d):  
253 mg/l (0,1 %)

- **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, at their direct request or at the request of a detergent manufacturer.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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

### 13 Disposal considerations

- **Product:**

- **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **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.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulations

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product has not been classified and marked in accordance with EU Directives / respective national laws.

- **Safety phrases:**

2 Keep out of the reach of children.

7 Keep container tightly closed.

- **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

- **National regulations**

- **Technical instructions (air):**

Class	Share in %
NK	12.0

(Contd. on page 5)

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Reviewed on 27.09.2005

**Trade name: RM 724 Window cleaner**

(Contd. of page 4)

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**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 R-phrases**

11 Highly flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** Department PND-D

· **Contact:**

Frau Fiess, Frau Kühner

RM 724/7

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