

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

Printing date 04.12.2020

Version number 5

Revision: 01.12.2020

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

- **1.1 Product identifier**
- **Trade name:** Disinfectant, liquid RM 735
- **UFI:** 3T60-509F-G004-3TH4
- **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** Disinfectant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

**Alfred Kärcher SE & Co. KG**

Alfred-Kärcher-Str. 28-40  
D - 71364 Winnenden  
Tel.: +49-7195-14-0

**Kärcher (UK) Ltd.**

Kärcher House  
Brookhill Way  
Banbury  
Oxon OX16 3ED  
Great Britain  
Tel.: +44-1295-752-000

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

- **Further information obtainable from:**

Department TCD-D  
Tel.: +49-7195-14-2548  
Fax : +49-7195-14-3164  
[productsafety.management@de.kaercher.com](mailto:productsafety.management@de.kaercher.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)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2	H315 Causes skin irritation.
Eye Dam. 1	H318 Causes serious eye damage.
Aquatic Acute 1	H400 Very toxic to aquatic life.

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Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

**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**

GHS05 GHS09

**Signal word Danger****Hazard-determining components of labelling:**

Didecyldimethylammonium chloride (DDAC)

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

**Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

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

P310 Immediately call a POISON CENTER/doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Labelling of packages where the contents do not exceed 125 ml****Hazard pictograms**

GHS05 GHS09

**Signal word Danger****Hazard-determining components of labelling:**

Didecyldimethylammonium chloride (DDAC)

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

**Hazard statements**

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

### 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:** Mixture of substances listed below with non-hazardous additions.

#### Dangerous components:

CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	Didecyldimethylammonium chloride (DDAC) ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≥2.5-<5%
CAS: 68424-85-1 EINECS: 270-325-2 Reg.nr.: 01-2119965180-41	Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)) ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≥2.5-<5%
CAS: 85409-23-0 EINECS: 287-090-7	Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14)) ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≥2.5-<5%
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	1-5%

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

cationic surfactants	<5%
disinfectants	

• **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

• **General information** Involve doctor immediately.

#### After inhalation

In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air; consult doctor in case of complaints.

• **After skin contact** Immediately wash with water and soap and rinse thoroughly.

• **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **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** Corneal damage
- **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**  
CO<sub>2</sub>, 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**  
Hydrogen chloride (HCl)  
Nitrogen oxides (NO<sub>x</sub>)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear fully protective suit.
- **Additional information**  
Cool endangered receptacles with water spray.  
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:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
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).  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

**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:** Prevent any seepage into the ground.

**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

#### 8.1 Control parameters

**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

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

##### DNELs

##### 68424-85-1 Alkyl (C12-C16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

Dermal	DNEL	5.7 mg/kg*d (employee)
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Inhalative	DNEL	3.96 mg/m <sup>3</sup> (employee)
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1.64 mg/m<sup>3</sup> (consumer)

Irritation of skin	DNEL	3.4 mg/cm <sup>2</sup> (consumer)
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##### 85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

Inhalative	DNEL	1 mg/m <sup>3</sup> (employee)
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1 mg/m<sup>3</sup> (consumer)

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

Oral	DNEL	26 mg/kg*d (consumer)
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Dermal	DNEL	888 mg/kg*d (employee)
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319 mg/kg\*d (consumer)

Inhalative	DNEL	500 mg/m <sup>3</sup> (employee)
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89 mg/m<sup>3</sup> (consumer)

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· PNECs	
<b>68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))</b>	
PNEC	0.001 mg/l (freshwater) 0.001 mg/l (marine water) 0.4 mg/l (STP)
PNEC sediment	12.27 mg/kg (freshwater) 13.09 mg/kg (marine water)
PNEC soil	7 mg/kg (soil)
<b>85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))</b>	
PNEC	0.000042 mg/l (freshwater) 0.000042 mg/l (marine water) 0.21 mg/l (STP)
PNEC soil	6.81 mg/kg (freshwater) 0.681 mg/kg (marine water) 1.36 mg/kg (soil)
<b>67-63-0 propan-2-ol</b>	
PNEC	140.9 mg/l (freshwater) 140.9 mg/l (marine water) 140.9 mg/l (STP) 2,251 mg/l (STP)
PNEC sediment	552 mg/kg (freshwater) 552 mg/kg (marine water)
PNEC soil	28 mg/kg (soil)

### · 8.2 Exposure controls

#### · Personal protective equipment

#### · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

#### · Respiratory protection:

Filter A/P2.  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Not necessary if room is well-ventilated.

#### · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves.

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- **Material of gloves** Butyl rubber, BR
- **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.
- **For the permanent contact gloves made of the following materials are suitable:**
  - \* butyl rubber 0,7 mm, 480 min (EN 374)
- **As protection from splashes gloves made of the following materials are suitable:**
  - \* nitril rubber 0,4 mm, 30 min (EN 374)
- **Eye protection:**



Tightly sealed goggles (EN 166)

- **Body protection:** Protective work clothing.

### 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:	7.6
· pH-value 1 %:	8.0
· pH 1 % dem.	7.6

##### · Change in condition

Melting point/freezing point:	undetermined
Initial boiling point and boiling range:	100 °C

· Flash point:	Not applicable
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· Flammability (solid, gaseous)	Not applicable.
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· Ignition temperature:	not applicable
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· Decomposition temperature:	Not determined.
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· Auto-ignition temperature:	Product is not selfigniting.
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· Explosive properties:	Product does not present an explosion hazard.
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##### · Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure at 20 °C:	23 hPa
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- **Density at 20 °C:** 0.987 g/cm<sup>3</sup>
- **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: 4.5 mPas
  - kinematic: Not determined.

- **Solvent content:**
  - Organic solvents: 1.4 %
  - VOC (EC) 1.40 %
  - Solids content: 10.2 %

- **9.2 Other information** No further relevant information available.

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

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

**7173-51-5 Didecyldimethylammonium chloride (DDAC)**

Oral	LD50	238 mg/kg (Rat)
Dermal	LD50	3,342 mg/kg (Rabbit)

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<b>68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))</b>		
Oral	LD50	344 mg/kg (Rat)
Dermal	LD50	3,340 mg/kg (Rabbit)
<b>85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))</b>		
Oral	LD50	344 mg/kg (Rat)
Dermal	LD50	2,300 mg/kg (Rat)
<b>67-63-0 propan-2-ol</b>		
Dermal	LD50	12,800 mg/kg (Rabbit)
		12,800 mg/kg (rabbit)
Inhalative	LC50	5,280 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, 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:

<b>7173-51-5 Didecyldimethylammonium chloride (DDAC)</b>	
LC50/96 h	0.19 mg/l (Pimephales promelas)
EC50/48 h	0.062 mg/l (Daphnia magna)
EC50	11 mg/l (bacteria)
ErC50/96h	0.026 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.032 mg/l (Danio rerio)
	0.014 mg/l (Daphnia magna)
<b>68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))</b>	
LC50/96 h	0.28 mg/l (Pimephales promelas) (US-EPA)
	0.515 mg/l (Lepomis macrochirus)
IC50/72 h	0.03 mg/l (Algae)
EC50/48 h	0.016 mg/l (Daphnia magna)
ErC50/96h	0.049 mg/l (Pseudokirchneriella subcapitata)

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NOEC	0.032 mg/l (Pimephales promelas) 0.0042 mg/l (Daphnia magna) 0.456 mg/l (Lepomis macrochirus)
<b>85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))</b>	
NOEC	0.00415 mg/l (Daphnia magna)
<b>67-63-0 propan-2-ol</b>	
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.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish

· **Additional ecological information:**

· **COD-value:** 392.000 mg/l

· **General notes:**

The product does not contain organic complexing agents.

The product does not contain organically bounded halogens (AOX-free).

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **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.

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### · European waste catalogue

20 01 29\* detergents containing hazardous substances

### · Uncleaned packaging:

#### · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.  
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, IMDG, IATA

UN1903

### · 14.2 UN proper shipping name

#### · ADR

1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S.  
(alkylaryldimethylammoniumchloride),  
ENVIRONMENTALLY HAZARDOUS

#### · IMDG

DISINFECTANT, LIQUID, CORROSIVE, N.O.S.  
(alkylaryldimethylammoniumchloride), MARINE  
POLLUTANT

#### · IATA

DISINFECTANT, LIQUID, CORROSIVE, N.O.S.  
(alkylaryldimethylammoniumchloride)

### · 14.3 Transport hazard class(es)

#### · ADR



#### · Class

8 (C9) Corrosive substances.

#### · Label

8

#### · IMDG



#### · Class

8 Corrosive substances.

#### · Label

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### · IATA



· **Class** 8 Corrosive substances.  
· **Label** 8

· **14.4 Packing group**  
· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**  
· **Marine pollutant:** Yes  
Symbol (fish and tree)  
· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Corrosive substances.  
· **Hazard identification number (Kemler code):** 80  
· **EMS Number:** F-A,S-B  
· **Stowage Category** A

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

### · Transport/Additional information:

· **ADR**  
· **Limited quantities (LQ)** 5L  
· **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml  
· **Transport category** 3  
· **Tunnel restriction code** E

· **IMDG**  
· **Limited quantities (LQ)** 5L  
· **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S.  
(ALKYLARYLDIMETHYLAMMONIUMCHLORIDE), 8, III, ENVIRONMENTALLY HAZARDOUS

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### 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.
- **Seveso category E1** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

##### · Regulation (EU) No 649/2012

7173-51-5 Didecyltrimethylammonium chloride (DDAC)

Annex I Part 1

##### · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

##### · National regulations

- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

##### · Breakdown regulations:

Critical quantity values according to the regulations on accidents should be adhered to.

##### · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

#### · Reasons for alterations

#### · Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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

Skin corrosion/irritation

On basis of test data

Serious eye damage/eye irritation  
Hazardous to the aquatic environment - short-term (acute) aquatic hazard  
Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### · Department issuing SDS: TCD-D

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Department TCD-D

Tel.: +49-7195-14-2548

Fax : +49-7195-14-3164

productsafety.management@de.kaercher.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

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)

PNEC: Predicted No-Effect Concentration (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

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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