

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

Printing date 25.02.2022

Version number 6 (replaces version 5)

Revision: 01.12.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking· **1.1 Product identifier**· **Trade name:** Disinfectant, liquid RM 735· **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· **Further information obtainable from:**

Department CSD-D

Tel.: +49-7195-14-0

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.

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

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· 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:

Didecyltrimethylammonium 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.

H410 Very 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.

· 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 Mixtures

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

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· Dangerous components:

CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	Didecyltrimethylammonium chloride (DDAC) ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ 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 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ 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

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.

· 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

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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Trade name: Disinfectant, liquid RM 735*(Contd. of page 3)***· 5.2 Special hazards arising from the substance or mixture**

Hydrogen chloride (HCl)

Nitrogen oxides (NO_x)

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.

See Section 13 for disposal information.

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:** Keep receptacle tightly sealed.*(Contd. on page 5)*

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· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 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/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

· DNELs

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

Dermal DNEL 5.7 mg/kg*d (employee)
Inhalative DNEL 3.96 mg/m³ (employee)
1.64 mg/m³ (consumer)
Irritation of skin DNEL 3.4 mg/cm² (consumer)

85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

Inhalative DNEL 1 mg/m³ (employee)
1 mg/m³ (consumer)

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)
89 mg/m³ (consumer)

· PNECs

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

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)

85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

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)

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67-63-0 propan-2-ol

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

• **Appropriate engineering controls** No further data; see item 7.

• **Individual protection measures, such as 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 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.

• **Hand protection**

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.

• **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/face protection**



Tightly sealed goggles (EN 166)

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Fluid
Colour:	Colourless
Odour:	Product specific
Odour threshold:	Not determined.
Melting point/freezing point:	0 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH at 20 °C	7.6
pH-value 1 %:	7-9
Viscosity:	
Kinematic viscosity	Not determined.
dynamic at 20 °C:	4.5 mPas
Solubility	
Water:	Fully miscible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.987 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	not applicable
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Solids content:	10.2 %
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void

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· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

- **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)

68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

Oral	LD50	344 mg/kg (Rat)
Dermal	LD50	3,340 mg/kg (Rabbit)

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85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

Oral	LD50	344 mg/kg (Rat)
Dermal	LD50	2,300 mg/kg (Rat)

67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (Rat) (OECD 401)
Dermal	LD50	13,900 mg/kg (Rabbit) (OECD 402)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **11.2 Information on other hazards**

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

• 12.1 Toxicity

• Aquatic toxicity:

7173-51-5 Didecyltrimethylammonium chloride (DDAC)

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)

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

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)
NOEC	0.032 mg/l (Pimephales promelas)
	0.0042 mg/l (Daphnia magna)
	0.456 mg/l (Lepomis macrochirus)

85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

NOEC	0.00415 mg/l (Daphnia magna)
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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)

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- **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.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **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.

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**

20 01 29*	detergents containing hazardous substances
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- **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 or ID number**
- **ADR, IMDG, IATA** UN1903

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· 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

8

· 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

· Hazard identification number (Kemler code):

Warning: Corrosive substances.

· EMS Number:

80
F-A,S-B

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· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	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

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
- **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

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.

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A product information sheet can be provided if requested.

· 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.

· Department issuing SDS: CSD-D**· Contact:**

Department CSD-D
Tel.: +49-7195-14-0
productsafety.management@de.kaercher.com

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)
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 – 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

· * Data compared to the previous version altered.

· 0-011-852-0 RM 735/1 2-482