

Safety Data Sheet
according to P.U.(A) 310/2013

Printing date 19.12.2025

Version number 6

Revision: 01.12.2021

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name:** Disinfectant, liquid RM 735
- **Recommended use of the chemical and restrictions on use** Restricted to professional users.
- **Application of the substance / the mixture** Disinfectant

- **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

Karcher Cleaning Systems Sdn. Bhd.

No. 5 Jalan Perintis U1/52

Kawasan Perindustrian Temasya Glenmarie

40150 Shah Alam

Selangor Darul Ehsan

Malaysia

Phone: +60-3-55670510

Internet: www.karcher.com

- **Further information obtainable from:**

Regulatory Affairs

Tel.: +49-7195-14-0

productsafety.management.de@karcher.com

- **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: +1-703-527-3887 (collect calls accepted)

2 Hazard identification

- **Classification of the substance or mixture**

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.

- **Label elements**

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

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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.

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.

3 Composition and information of the ingredients of the hazardous chemical

Chemical characterisation: Mixtures

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

Dangerous components:

7173-51-5	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%
68424-85-1	Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)) ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302	≥2.5-<5%
85409-23-0	Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14)) ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≥2.5-<5%
67-63-0	isopropanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	1-5%

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

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4 First-aid measures

- **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.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** Corneal damage
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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.
- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required
- **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.

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· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Ensure adequate ventilation.

· **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.

7 Handling and storage

· **Handling**

· **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.

· **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.

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

8 Exposure controls and personal protection

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

· **Control parameters**

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

67-63-0 isopropanol

PEL (USA)	Long-term value: 980 mg/m ³ , 400 ppm
REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV (USA)	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

· **DNELs**

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

Dermal	DNEL	5.7 mg/kg×d (employee)
Inhalative	DNEL	3.96 mg/m ³ (employee) 1.64 mg/m ³ (consumer)

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Irritation of skin	DNEL	3.4 mg/cm ² (consumer)
85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))		
Inhalative	DNEL	1 mg/m ³ (employee) 1 mg/m ³ (consumer)
67-63-0 isopropanol		
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)

· PNECs

68424-85-1 Alkyl (C12-16) 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)
67-63-0 isopropanol		
PNEC		140.9 mg/l (freshwater) 140.9 mg/l (marine water) 140.9 mg/l (STP) 2251 mg/l (STP)
PNEC sediment		552 mg/kg (freshwater) 552 mg/kg (marine water)
PNEC soil		28 mg/kg (soil)

· Ingredients with biological limit values:

67-63-0 isopropanol		
BEI (USA)	40 mg/L	Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

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- **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 eyes and skin.
- **Respiratory protection:** 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.

- **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.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Product specific
Odour threshold:	Not determined

pH-value at 20 °C:	7.6
pH-value 1 %:	7-9

Change in condition

Melting point/freezing point	0 °C
Initial boiling point and boiling range	100 °C

Flash point:	Not applicable
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· Flammability	Not applicable
· Auto-ignition temperature	not applicable
· Decomposition temperature:	Not determined
· 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:	Not determined
· Density at 20 °C:	0.987 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:	4.5 mPas
kinematic:	Not determined
· Solvent content: Solids content:	10.2 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

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11 Toxicological information

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 3342 mg/kg (Rabbit)

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

Oral LD50 344 mg/kg (Rat)

Dermal LD50 3340 mg/kg (Rabbit)

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

Oral LD50 344 mg/kg (Rat)

Dermal LD50 2300 mg/kg (Rat)

67-63-0 isopropanol

Oral LD50 5840 mg/kg (Rat) (OECD 401)

Dermal LD50 13900 mg/kg (Rabbit) (OECD 402)

Primary irritant effect:

· **Skin corrosion or irritation** Causes skin irritation.

· **Serious eye damage or eye irritation** Causes serious eye damage.

· **Respiratory / skin sensitization** 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.

· **Specific target organ toxicity (STOT) – single exposure** Based on available data, the classification criteria are not met.

· **Specific target organ toxicity (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.

12 Ecological information

Toxicity

Aquatic toxicity:

7173-51-5 Didecyldimethylammonium 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)

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68424-85-1 Alkyl (C12-16) 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)
EC50/30 min	11 mg/l (activated sludge) (OECD 209)
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 isopropanol

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

· **Persistence and degradability** No further relevant information available.

· **Degree of elimination:**

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

OECD 301D	63 % (28 d)
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· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **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.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

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

13 Disposal information

· **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

· **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.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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

14 Transportation information

· **UN-Number**

· **ADR, IMDG, IATA**

UN1903

· **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)

· **Transport hazard class(es)**

· **ADR**

· **Class**

8 (C9) Corrosive substances.

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· Label	8
· IMDG	
 	
· Class	8 Corrosive substances.
· Label	8
· IATA	
	
· Class	8 Corrosive substances.
· Label	8
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Stowage Category	A
· 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

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· 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

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical safety assessment**
- **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.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· Contact:

Regulatory Affairs

Tel.: +49-7195-14-0

productsafety.management.de@karcher.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

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 - oral – Category 4

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

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

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

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

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

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

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

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

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

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

· 0·011-852·0

RM 735/1

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