

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

Printing date 17.07.2026

Version number 8

Revision: 06.12.2024

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name:** Disinfectant Cleaner, liquid RM 732
- **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.

Lot 4, Jalan Pengarah U1/29

Hicom-Glenmarie Industrial Park

40150 Shah Alam, Selangor, Malaysia

Phone: 1-300-22-3188

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**

Met. Corr. 1 H290 May be corrosive to metals.

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:

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine)

Hazard statements

H290 May be corrosive to metals.

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

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.

P362+P364 Take off contaminated clothing and wash it before reuse.

P406 Store in corrosive resistant container with a resistant inner liner.

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:

2372-82-9	N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine) Acute Tox. 3, H301; STOT RE 2, H373; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 1, H410	≥5-<10%
69011-36-5	isotridecanoethoxylate + 8 EO Eye Dam. 1, H318; Acute Tox. 4, H302	≥1-<3%
79-33-4	L-Lactic acid (2-hydroxy propionic acid) Skin Corr. 1C, H314; Eye Dam. 1, H318	≥1-<3%
68891-38-3	sodium lauryl ether sulfate Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 5 % ≤ C < 10 %	≥1-<2.5%
5538-95-4	N-Dodecylpropane-1,3-diamine Acute Tox. 3, H301; Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400	≥0.25-<1%
124-22-1	dodecylamine Acute Tox. 3, H301; STOT RE 2, H373; Asp. Haz., H304; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 1, H410 (M=10)	≥0.025-<0.1%

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

4 First-aid measures

- **Description of first aid measures**
- **General information** Immediately remove any clothing soiled by the product.
- **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.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **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.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Use neutralising agent.

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Dispose contaminated material as waste according to section 13.
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:** Store only in the original receptacle.

· **Information about storage in one common storage facility:**

Do not store together with acids.
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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

2372-82-9 N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine)

Oral	DNEL	0.2 mg/kg×d (consumer)
Dermal	DNEL	0.91 mg/kg×d (employee) 0.54 mg/kg×d (consumer)
Inhalative	DNEL	2.35 mg/m3 (employee) 0.7 mg/m3 (consumer)

· PNECs

2372-82-9 N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine)

PNEC	0.001 mg/l (freshwater)
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PNEC sediment	0 mg/l (marine water) 0.18 mg/l (STP) 8.5 mg/kg (freshwater)
PNEC soil	0.13 mg/kg (marine water) 45.34 mg/kg (soil)
68891-38-3 sodium lauryl ether sulfate	
PNEC	10000 mg/l (STP) (Assessment factor: 1)
PNEC sediment	0.917 mg/kg (freshwater) (sediment dw) 0.092 mg/kg (marine water) (sediment dw)
PNEC soil	7.5 mg/kg (Assessment factor: 100)
PNEC aqua	0.24 mg/l (freshwater) (Assessment factor: 5) 0.024 mg/l (marine water) (Assessment factor: 50)

- **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:**



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.
- **Eye protection:**



Tightly sealed goggles (EN 166)

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form: Fluid
 - Colour: Colourless
- **Odour:** Amine-like
- **Odour threshold:** Not determined

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· pH-value at 20 °C:	9.9
· pH-value 1 %:	9-10
· Change in condition	
Melting point/freezing point	undetermined
Initial boiling point and boiling range	undetermined
· Flash point:	Not applicable
· 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:	1.026 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:	8 mPas
kinematic:	Not determined
· 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**
 - Strong exothermic reaction with acids
 - Reacts with light alloys to form hydrogen
 - Corrodes aluminium

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Not compatible with alkali-sensitive substances like Sn, Zn, Al and paintings.
- **Hazardous decomposition products:** No dangerous decomposition products known

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:**

2372-82-9 N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine)

Oral	LD50	261 mg/kg (Rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (Rat)

69011-36-5 isotridecanoethoxylate + 8 EO

Oral	ATE	500 mg/kg (Rat)
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124-22-1 dodecylamine

Inhalative	LC50	1020 mg/kg (Rat)
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- **Primary irritant effect:**
- **Skin corrosion or irritation**
Caustic effect on skin and mucous membranes.
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:**

2372-82-9 N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine)

LC50/96 h	0.68 mg/l (F26) (OECD 203)
	0.45 mg/l (Lepomis macrochirus) (US-EPA)
EC50/48 h	0.073 mg/l (Daphnia magna) (US-EPA)

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ErC50/96h	0.054 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.0069 mg/l (Desmodesmus subspicatus)
	0.024 mg/l (Daphnia magna) (OECD 211, 21d)
69011-36-5 isotridecanoethoxylate + 8 EO	
LC50/96 h	>1-10 mg/l (Leuciscus idus)
EC50/48 h	>1-10 mg/l (Aquatic invertebrates)
EC50/72 h	>1-10 mg/l (Aquatic plants)
NOEC	>1 mg/l /(21 d)
68891-38-3 sodium lauryl ether sulfate	
LC50/96 h	7.1 mg/l (Brachydanio rerio) (OECD 203)
EC50/48 h	7.4 mg/l (Daphnia magna) (OECD 202)
EC50/72 h	27.7 mg/l (Algae) (OECD 201)
EC50 (static)	>10000 mg/l (Pseudomonas putida)
NOErC	0.95 mg/l (algae)
NOEC (dynamic)	0.27 mg/l /(21 d) (Daphnia magna) (OECD 211)
	0.14 mg/l /(28 d) (Oncorhynchus mykiss) (OECD 204)

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

· **Degree of elimination:**

69011-36-5 isotridecanoethoxylate + 8 EO	
OECD 301B	>60 % (28 d)
OECD 301E	≥90 % (28 d)
68891-38-3 sodium lauryl ether sulfate	
OECD 301D	≥77 % (28 d)

· **Behaviour in environmental systems:**

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

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

· **Additional ecological information:**

· **COD-value:** 425000 mg/l

· **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.

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

The contained organic complexing agents reach a DOC-elimination grade of 80% (corresponding to No. 406 of Annex "Analytic and measuring methods") and with this meet the tightened demands of Annex 49 of the revised Direction on liquid waste.

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

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

Results of PBT and vPvB assessment

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **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
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Uncleaned packaging:
Recommendation:

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

UN1760

UN proper shipping name
ADR

1760 CORROSIVE LIQUID, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine), ENVIRONMENTALLY HAZARDOUS

IMDG

CORROSIVE LIQUID, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine), MARINE POLLUTANT

IATA

CORROSIVE LIQUID, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine)

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:	Product contains environmentally hazardous substances: N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine
· Marine pollutant:	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
· Stowage Code	SW2 Clear of living quarters.
· 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 1760 CORROSIVE LIQUID, N.O.S. (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE), 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.
- **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

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity - oral – Category 3

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

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

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

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

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

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Eye Dam. 1: Serious eye damage or eye irritation – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Haz.: Aspiration hazard – Category 1
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
Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard – Category 3

0-011-688-0 RM 732/4 2-795