

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

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KÄRCHER

Printing date 17.04.2020

Version number 9

Revision: 07.08.2018

1 Identification of the hazardous chemical and of the supplier

· **Product identifier**

· **Trade name: RM 69 ASF**

· **Recommended use of the chemical and restrictions on use**

No further relevant information available.

· **Application of the substance / the mixture** Detergent

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Alfred Kärcher SE & Co. KG

Alfred-Kärcher-Str. 28-40

D - 71364 Winnenden

Postfach 160

D - 71349 Winnenden

Tel.: +49-7195-14-0

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www.karcher.com

Karcher Cleaning Systems Sdn. Bhd.

No. 5 Jalan Perintis U1/52

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Kawasan Perindustrian Temasya Glenmarie

40150 Shah Alam

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· **Further information obtainable from:**

Department TCD-D

Tel.: +49-7195-14-2548

Fax : +49-7195-14-3164

safetydata@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: +1 703-741-5970 (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.

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



GHS05

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
isotridecanoethoxylate + 8 EO
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
- **Precautionary statements**
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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.

- **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:**

541-02-6	decamethylcyclopentasiloxane
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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:**

111-76-2	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥5-<10%
111905-53-4	aliphatic alcohols, C12-C18, mainly linear, ethoxylated, butoxylated ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%

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69011-36-5	isotridecanoethoxylate + 8 EO ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	1-5%
15763-76-5	sodium p-cumenesulphonate ⚠ Eye Irrit. 2, H319	1-5%
541-02-6	decamethylcyclopentasiloxane vPvB	0.1-1%

· **SVHC**

541-02-6 decamethylcyclopentasiloxane

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

4 First-aid measures

- **Description of first aid measures**
- **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.
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.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **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** Not required.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

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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).

· **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** *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:** *No special requirements.*

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

Keep away from food, beverages and feed.

· **Further information about storage conditions:** *None.*

· **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 item 7.*

· **Control parameters**

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

111-76-2 2-butoxyethanol

PEL (USA) Long-term value: 240 mg/m³, 50 ppm
Skin

REL (USA) Long-term value: 24 mg/m³, 5 ppm
Skin

TLV (USA) Long-term value: 97 mg/m³, 20 ppm
BEI

IOELV (European Union) Short-term value: 246 mg/m³, 50 ppm
Long-term value: 98 mg/m³, 20 ppm
Skin

· **DNELs**

15763-76-5 sodium p-cumenesulphonate

Oral DNEL 3.8 mg/kg*d (consumer)

Dermal DNEL 136.25 mg/kg*d (employee)
68.1 mg/kg*d (consumer)

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<i>Inhalative</i>	<i>DNEL</i>	26.9 mg/m ³ (employee) 6.6 mg/m ³ (consumer)
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· **PNECs**

15763-76-5 sodium p-cumenesulphonate

<i>PNEC</i>	0.23 mg/l (freshwater) 0.023 mg/l (marine water) 100 mg/l (STP)
<i>PNEC sediment</i>	0.862 mg/kg (freshwater) 0.086 mg/kg (marine water)
<i>PNEC soil</i>	0.037 mg/kg (soil)

· **Ingredients with biological limit values:**

111-76-2 2-butoxyethanol

<i>BEI (USA)</i>	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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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 skin.
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.

· **For the permanent contact gloves made of the following materials are suitable:**

* butyl rubber 0,7 mm, 480 min (EN 374)

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

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· **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: Blue

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 12.4

· **pH 1 % dem.** 11.0

· **Change in condition**

Melting point/freezing point 0 °C

Initial boiling point and boiling range 100 °C

· **Flash point:** Not applicable

· **Flammability (solid, gas)** Not applicable.

· **Ignition temperature:** not applicable

· **Decomposition temperature:** Not determined.

· **Auto-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/cm³

· **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: 3.3 mPas

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kinematic:	Not determined.
· Solvent content:	
Organic solvents:	5.0 %
VOC (EC)	5.00 %
Solids content:	9.3 %
· 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

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

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

111-76-2 2-butoxyethanol		
Oral	LD50	1,746 mg/kg (Rat)
Inhalative	LCLo	>3.1 ppm (consumer)
69011-36-5 isotridecanoethoxylate + 8 EO		
Oral	ATE	500 mg/kg (Rat)
541-02-6 decamethylcyclopentasiloxane		
Dermal	LD50	>15,000 mg/kg (Rat)
Inhalative	LC50	>5,000 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion or irritation**
EpiDerm
Irritant to skin and mucous membranes.
- **Serious eye damage or eye irritation**
BCOP (OECD 437)
Strong irritant with the danger of severe eye injury.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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Irritant

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12 Ecological information

· Toxicity

· Aquatic toxicity:

111-76-2 2-butoxyethanol

LC50/96 h	1,474 mg/l (<i>Oncorhynchus mykiss</i>) (OECD 203)
EC50/48 h	1,550 mg/l (<i>Daphnia magna</i>) (OECD 202)
EC50/72 h	1,840 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201)
EC0 (16 h)	700 mg/l (<i>Pseudomonas putida</i>)
NOEL (21 d)	100 mg/l (<i>Daphnia magna</i>) (OECD 211)

69011-36-5 isotridecanoethoxylate + 8 EO

LC50/96 h	1-10 mg/l (<i>Leuciscus idus</i>)
EC50/48 h	1-10 mg/l (Aquatic invertebrates)
EC50/72 h	1-10 mg/l (Aquatic plants)

· Persistence and degradability

69011-36-5 isotridecanoethoxylate + 8 EO

Bismuth-act. sup.	≥90 % (mod. OECD 301 E)
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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:** 255000 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 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 Directive on liquid waste.

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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· vPvB:

541-02-6 | decamethylcyclopentasiloxane

· **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:** Non contaminated packagings may be recycled.

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

14 Transportation information

· **UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **Packing group**

· **ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

Void

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15 Regulatory information

- **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.
- **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.

- **Department issuing SDS:** TCD-D
- **Contact:**
Department TCD-D
Tel.: +49-7195-14-2548
Fax : +49-7195-14-3164
safetydata@karcher.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
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity - oral – Category 4
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
- *** Data compared to the previous version altered.**
- 0-011-367-0 RM 69/19 2-189

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