

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking· **1.1 Product identifier**· **Trade name:** PressurePro Grease and Protein Remover RM 731· **UFI:** S380-R0NE-200J-0X83· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Restricted to professional users.

· **Application of the substance / the mixture** High pressure cleaner· **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

Karcher Ltd

Unit 3

Redcow Retail Centre

Robinhood Road, Ballymount

Dublin 22

D22 PY03

Tel.: +353 1 409 7777

Internet: www.karcher.com· **Further information obtainable from:**

Regulatory Affairs

Tel.: +49-7195-14-0

productsafety.management.de@karcher.com· **1.4 Emergency telephone number:**

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Telephone Number: +353 (0)1 809 2166

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**

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

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

(Contd. on page 2)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 1)

Eye Dam. 1 H318 Causes serious eye damage.

- **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

- **Signal word** Danger
- **Hazard-determining components of labelling:**
sodium hydroxide
fatty alcohol ethoxylate
isotridecanoethoxylate + 8 EO
- **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P405 Store locked up.
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.
- **Determination of endocrine-disrupting properties** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Cleaning agent

Dangerous components:

CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-xxxx	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥2-<5%
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(Contd. on page 3)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 2)

CAS: 15763-76-5 EINECS: 239-854-6 Reg.nr.: 01-2119489411-37-xxxx	sodium p-cumenesulphonate ⚠ Eye Irrit. 2, H319	1-5%
CAS: 78330-20-8	fatty alcohol ethoxylate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	≥1-<3%
CAS: 69011-36-5	isotridecanoethoxylate + 8 EO ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	≥1-<3%

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

non-ionic surfactants, anionic surfactants, polycarboxylates	<5%
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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.

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.

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

No special measures required.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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(Contd. on page 4)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: **PressurePro Grease and Protein Remover RM 731**

(Contd. of page 3)

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 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.

· 6.3 Methods and material for containment and cleaning up:

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

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

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: 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.

· 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:

1310-73-2 sodium hydroxide

OEL Short-term value: 2 mg/m³

(Contd. on page 5)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 4)

· DNELs		
1310-73-2 sodium hydroxide		
Inhalative	DNEL	1 mg/m ³ (employee) 1 mg/m ³ (consumer)
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)
Inhalative	DNEL	26.9 mg/m ³ (employee) 6.6 mg/m ³ (consumer)
· PNECs		
15763-76-5 sodium p-cumenesulphonate		
PNEC		0.23 mg/l (freshwater) 0.023 mg/l (marine water) 100 mg/l (STP)
PNEC sediment		0.862 mg/kg (freshwater) 0.086 mg/kg (marine water)
PNEC soil		0.037 mg/kg (soil)

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

Do not inhale gases / fumes / aerosols.

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:**

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.

Filter A/P2.

· **Hand protection**



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

(Contd. on page 6)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 5)

· Eye/face protection



Tightly sealed goggles (EN 166)

· Body protection:

Apron
Boots

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Fluid
· Colour:	Light yellow
· Odour:	Product specific
· Odour threshold:	Not determined.
· Melting point/freezing point:	-7 °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:	not applicable
· Decomposition temperature:	Not determined.
· pH at 20 °C	13
· pH-value 1 %:	11-12
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	6 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:	1.103 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Relative gas density	Not determined.
· Particle characteristics	Not applicable.

· 9.2 Other information

· Appearance:

· Form: Fluid

(Contd. on page 7)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 6)

- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **Solids content:** 22.0 %
- **Change in condition**
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **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** May be corrosive to metals.
- **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**
Strong exothermic reaction with acids
Reacts with light alloys to form hydrogen
Corrodes aluminium
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Not compatible with alkali-sensitive substances like Sn, Zn, Al and paintings.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

(Contd. on page 8)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: **PressurePro Grease and Protein Remover RM 731**

(Contd. of page 7)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

15763-76-5 sodium p-cumenesulphonate

Oral LD50 >5000 mg/kg (Rat) (OECD 401)

Dermal LD50 >2000 mg/kg (Rabbit)

78330-20-8 fatty alcohol ethoxylate

Oral ATE 500 mg/kg (Rat)

69011-36-5 isotridecanoethoxylate + 8 EO

Oral ATE 500 mg/kg (Rat)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards**

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

1310-73-2 sodium hydroxide

LC50/96 h 125 mg/l (Gambusia affinis)

EC50/48 h 76 mg/l (Daphnia magna)

40.4 mg/l (Ceriodaphnia dubia)

EC50/15 min 22 mg/l (Photobacterium phosphoreum)

15763-76-5 sodium p-cumenesulphonate

LC50/96 h (static) >100 mg/l (Oncorhynchus mykiss)

EC50/48 h (static) >100 mg/l (Daphnia magna)

EC50/96 h (static) >100 mg/l (Pseudokirchneriella subcapitata)

78330-20-8 fatty alcohol ethoxylate

LC50/96 h >10-100 mg/l (Leuciscus idus)

(Contd. on page 9)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 8)

EC50/48 h	>10-<100 mg/l (Aquatic invertebrates)
EC50/72 h	>10-<100 mg/l (Aquatic plants)
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)

· **12.2 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)

· **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:** 300.000 mg/l

· **General notes:**

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.

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

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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

(Contd. on page 10)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 9)

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:

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.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA	UN1824
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· 14.2 UN proper shipping name

· ADR	1824 SODIUM HYDROXIDE SOLUTION
· IMDG, IATA	SODIUM HYDROXIDE SOLUTION

· 14.3 Transport hazard class(es)

· ADR



· Class	8 (C5) Corrosive substances.
· Label	8

· IMDG, IATA



· Class	8 Corrosive substances.
· Label	8

· 14.4 Packing group

· ADR, IMDG, IATA	III
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(Contd. on page 11)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 10)

· 14.5 Environmental hazards:

· **Marine pollutant:** No

· 14.6 Special precautions for user

· **Hazard identification number (Kemler code):** 80
 · **EMS Number:** F-A,S-B
 · **Segregation groups** (SGG18) Alkalies
 · **Stowage Category** A
 · **Segregation Code** SG35 Stow "separated from" SGG1-acids

· 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 1824 SODIUM HYDROXIDE SOLUTION, 8, III

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.
 · **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· National regulations

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

· **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.

(Contd. on page 12)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 7 (replaces version 6)

Revision: 21.11.2022

Trade name: PressurePro Grease and Protein Remover RM 731

(Contd. of page 11)

A product information sheet can be provided if requested.

· Relevant phrases

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

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

Corrosive to metals	On basis of test data
Skin corrosion/irritation Serious eye damage/irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· Contact:

Regulatory Affairs
Tel.: +49-7195-14-0
productsafety.management.de@karcher.com

· Version number of previous version: 6

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· * Data compared to the previous version altered.

· 0-011-673-0 RM 731/5 2-492