

Safety data sheet

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **PressurePro Smoke Resin Remover RM 33**

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

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:

Regulatory Affairs

Tel.: +49-7195-14-0

productsafety.management.de@karcher.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

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

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

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 GB CLP regulation.

(Contd. on page 2)

Safety data sheet

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 1)

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

sodium hydroxide
alkyl polyglucoside

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.

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 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$	10-50%
CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36	alkyl polyglucoside Eye Dam. 1, H318	$\geq 3\%$ - $\leq 5\%$
CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16-XXXX	sodium lauryl ether sulfate Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: $C \geq 10\%$ Eye Irrit. 2; H319: $5\% \leq C < 10\%$	$\geq 1\%$ - $< 2.5\%$

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

GB

(Contd. on page 3)

Safety data sheet

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

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Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 2)

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.

Immediately rinse with water.

· 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

Causes severe skin burns and eye 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.

· 5.2 Special hazards arising from the substance or mixture

 No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

· Additional information

 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

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.

(Contd. on page 4)

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 3)

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:

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: aluminium.

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

WEL Short-term value: 2 mg/m³

DNELs

1310-73-2 sodium hydroxide

Inhalative DNEL 1 mg/m³ (employee)

1 mg/m³ (consumer)

(Contd. on page 5)

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 4)

· PNECs

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)

· 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)

· **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:**

Alkaline resistant protective clothing

Boots

GB

(Contd. on page 6)

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 5)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Fluid
· Colour:	Yellow
· Odour:	Odourless
· Odour threshold:	Not determined.
· Melting point/freezing point:	undetermined
· 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 %:	12-13
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	20 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:	1.275 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
· 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:	43.8 %
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void

(Contd. on page 7)

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 6)

· 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

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.
- **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.

(Contd. on page 8)

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 7)

- **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)

68515-73-1 alkyl polyglucoside

LC50/96 h	100.81 mg/l (Brachydanio rerio)
EC50/72 h	27.22 mg/l (Aquatic plants)
EC10/21 d	1.76 mg/l (Daphnia magna)

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)

- **12.2 Persistence and degradability** No further relevant information available.

· **Degree of elimination:**

68891-38-3 sodium lauryl ether sulfate

OECD 301D	≥77 % (28 d)
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- **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.

(Contd. on page 9)

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

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Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 8)

- **12.7 Other adverse effects**
- **Additional ecological information:**
- **COD-value:** 1,960,000 mg/l

- **General notes:**

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 Directive on liquid waste.

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.

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

- **14.2 UN proper shipping name**

- **ADR**

1824 SODIUM HYDROXIDE SOLUTION

(Contd. on page 10)

Safety data sheet

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



Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 9)

· 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	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Segregation groups	(SGG18) Alkalis
· 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)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L

(Contd. on page 11)

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33

(Contd. of page 10)

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

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.
- **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.
A product information sheet can be provided if requested.

· **Relevant phrases**

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

· **Contact:**

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

· **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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)

(Contd. on page 12)

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

Printing date 18.05.2024

Version number 10 (replaces version 9)

Revision: 18.10.2021

Trade name: PressurePro Smoke Resin Remover RM 33*(Contd. of page 11)*

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

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

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

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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RM 33/7

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