

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

Printing date 31.01.2026

Version number 7

Revision: 03.04.2024

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name:** PressurePro Foam Cleaner, acidic RM 59
- **Recommended use of the chemical and restrictions on use** Restricted to professional users.
- **Application of the substance / the mixture** High pressure cleaner

- **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.

- **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

· Signal word Danger

· Hazard-determining components of labelling:

alkyl polyglucoside
formic acid

· Hazard statements

H290 May be corrosive to metals.
H315 Causes skin irritation.
H318 Causes serious eye damage.

· Precautionary statements

P264 Wash hands thoroughly after handling.
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.

3 Composition and information of the ingredients of the hazardous chemical

· Chemical characterisation: Mixtures

· Description:

Mixture consisting of the following components.
Cleaning agent

· Dangerous components:

5949-29-1	citric acid ·H ₂ O ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	≥5-<10%
68515-73-1	alkyl polyglucoside ⚠ Eye Dam. 1, H318	5-10%
64-18-6	formic acid ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H331; ⚠ Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 Specific concentration limits: Flam. Liq. 3; H226: C ≥ 85 % Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 10 % ≤ C < 90 % Skin Irrit. 2; H315: 2 % ≤ C < 10 % Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 2 % ≤ C < 10 %	≥5-<10%
151-21-3	sodium dodecyl sulphate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 20 % Eye Irrit. 2; H319: 10 % ≤ C < 20 %	≥2.5-<5%

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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** 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**
Rinse with warm water.
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.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **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:**
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:**

Unsuitable material for receptacle: aluminium.
Store only in the original receptacle.

· **Information about storage in one common storage facility:** Keep away from food, beverages and feed.

· **Further information about storage conditions:** Protect from frost.

· **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:**

64-18-6 formic acid

PEL (USA)	Long-term value: 9 mg/m ³ , 5 ppm
REL (USA)	Long-term value: 9 mg/m ³ , 5 ppm
TLV (USA)	Long-term value: 5 ppm
IOELV (European Union)	Long-term value: 9 mg/m ³ , 5 ppm

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Do not inhale gases / fumes / aerosols.
Keep away from foodstuffs, beverages and feed.

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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

· **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: Brown

· **Odour:** Product specific

· **Odour threshold:** Not determined

· **pH-value at 20 °C:** 2.1

· **pH-value 1 %:** 3-4

· **Change in condition**

Melting point/freezing point -4 °C

Initial boiling point and boiling range 100 °C

· **Flash point:** Not applicable

· **Flammability** Not applicable

· **Auto-ignition temperature** not applicable

· **Decomposition temperature:** Not determined

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· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined Not determined
· Vapour pressure:	Not determined
· Density at 20 °C: · Relative density · Vapour density · Evaporation rate	1.065 g/cm ³ Not determined Not determined Not determined
· Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient: n-octanol/water	Not determined
· Viscosity: dynamic: kinematic:	Not determined Not determined
· Solvent content: Solids content:	16.9 %
· 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**
Corrosive action on metals
Reacts with alkali (lyes)
Forms hydrogen in aqueous solution with metals
Reacts with light alloys to form hydrogen
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Not suitable for surfaces that are attacked by acids (limestone, marble, brick, aluminium, etc.).
- **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:

5949-29-1 citric acid ·H₂O

Oral	LD50	5400 mg/kg (mouse) (OECD 401)
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64-18-6 formic acid

Oral	LD50	730 mg/kg (Rat)
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Inhalative	LC50/4 h	7.85 mg/l (Rat)
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151-21-3 sodium dodecyl sulphate

Oral	LD50	1200 mg/kg (Rat)
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· 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:

5949-29-1 citric acid ·H₂O

LC50/96 h	440-760 mg/l (Leuciscus idus) (OECD 203)
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LC50/24 h	1535 mg/l (Daphnia magna)
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LC50/168 h	425 mg/l (Scenedesmus quadricauda)
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LC50/16 h	>10000 mg/l (Pseudomonas putida)
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EC50/72 h	120 mg/l (Daphnia magna)
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68515-73-1 alkyl polyglucoside

LC50/96 h	100.81 mg/l (Brachydanio rerio)
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EC50/72 h	27.22 mg/l (Aquatic plants)
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EC10/21 d	1.76 mg/l (Daphnia magna)
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· **Persistence and degradability** No further relevant information available.

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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:** 260.000 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 product does not contain organic complexing agents.

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

· 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:

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**

UN3412

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· UN proper shipping name · ADR · IMDG, IATA		3412 FORMIC ACID FORMIC ACID
· Transport hazard class(es) · ADR  · Class · Label		8 (C3) Corrosive substances. 8
· IMDG, IATA  · Class · Label		8 Corrosive substances. 8
· Packing group · ADR, IMDG, IATA		III
· Environmental hazards: · Marine pollutant:		No
· Special precautions for user · EMS Number: · Segregation groups · Stowage Category · Stowage Code		Warning: Corrosive substances. F-A,S-B (SGG1) Acids, (SGG1) acids A 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) · Excepted quantities (EQ) · Transport category · Tunnel restriction code		5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E

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· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ)

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 3412 FORMIC ACID, 8, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

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

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

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

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

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 Chronic 3: Hazardous to the aquatic environment - chronic hazard – Category 3

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

· 0-011-670-0

RM 59/12

2-441