

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



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

1.1. Product identifier

Trade name

PARA KALKLÖSER

UFI code

0CAK-MQM3-GY0Q-SDAG

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Descaler for professional users.

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet

Supplier

KLEEN PURGATIS GmbH

Address

Dieselstraße 10
32120 Hiddenhausen
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Web site

www.kleenpurgatis.de

Contact person

Regulatory Affairs

Email

info@kleen-purgatis.de

1.4. Emergency telephone number

+49 (0)551- 19240 (GIZ-Nord)

Available outside office hours

Yes

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Skin corrosion, hazard category 1B

Serious eye damage, hazard category 1

Hazard statements

H314, H318

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P280 Wear protective gloves/eye protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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.

More information

Hazard components for labeling: Phosphoric acid

2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
 Issued: 2026-07-08
 Replaces SDS: 2025-11-05



SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
phosphoric acid	7664-38-2 231-633-2 01-2119485924-24-xxxx 015-011-00-6	> 25 - 50%	Skin Corr. 1B	H314 - -	Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: 10% ≤ C < 25% Eye Irrit. 2, H319: 10% ≤ C < 25%	B
citric acid	77-92-9 201-069-1 01-2119457026-42-xxxx -	5 - < 20%	Eye Irrit. 2, STOT SE 3 - resp. tract irrit.	H319, H335 - -	ATE [Oral]: 5400 mg/kg bw	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately.

Skin contact

In case of contact, immediately flush skin with plenty of water. Call a physician immediately.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

Information for doctors

For specialist advice physicians should contact the Poisons Information Service.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Irritation and / or corrosion of the respiratory tract.

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



Skin contact

Causes severe skin burns.

Eye contact

May cause irreversible eye damage.

Ingestion

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, dry powder, foam, carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Corrosive - Combustion produces caustic fumes.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

Other

Other

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Ensure adequate ventilation, especially in confined areas. Evacuate unaffected personnel from the spill area.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



6.4. Reference to other sections

For information on storage and handling see section 7.
For information on exposure and personal protective equipment, see Section 8.
For information on incompatible materials, see Section 10.
For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear personal protective equipment. Avoid direct contact with the material / product. Ensure adequate ventilation, especially in confined areas.

General hygiene

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from food, drink and animal feeding stuffs. Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 8B (non-flammable, corrosive hazardous substances)

Store in original container.

Storage temperature: 10 °C to 40 °C

7.3. Specific end use(s)

See section 1.2: Descaler

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
phosphoric acid (EU)	7664-38-2 231-633-2	- / 1	- / 2			-

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
phosphoric acid (7664-38-2/231-633-2)	DNEL	Chronic (long term) Inhalation	10.7 mg/m ³	Workers	Systemic
phosphoric acid (7664-38-2/231-633-2)	DNEL	Chronic (long term) Inhalation	1 mg/m ³	Workers	Local
phosphoric acid (7664-38-2/231-633-2)	DNEL	Acute (short term) Inhalation	2 mg/m ³	Workers	Local
phosphoric acid (7664-38-2/231-633-2)	DNEL	Chronic (long term) Oral	100 µg/kg bw/day	Consumers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
citric acid (77-92-9/201-069-1)	PNEC	Freshwater	0.44 mg/l
citric acid (77-92-9/201-069-1)	PNEC	Marine water	0.044 mg/l
citric acid (77-92-9/201-069-1)	PNEC	Sewage Treatment Plant	1000 mg/l
citric acid (77-92-9/201-069-1)	PNEC	Sediment (freshwater)	34.6 mg/kg
citric acid (77-92-9/201-069-1)	PNEC	Sediment (marine water)	3.46 mg/kg
citric acid (77-92-9/201-069-1)	PNEC	Soil	33.1 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Eye / face protection

Chemical-resistant safety glasses with side protection conforming to EN166.

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



Hand protection

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Breakthrough time (maximal wear duration): Wear duration with occasional contact, splashes (Level 2: < 30 min): Disposable-gloves, Thickness of the material 0.1 mm. Wear duration with permanent contact (Level 6: < 480min): Protective gloves, Thickness of the glove material 0.7 mm. Breakthrough times and swelling properties of the material must be taken into consideration.

The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Other skin protection

long sleeved clothing

Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Thermal hazards

Not applicable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

Odour

odorless

Odour threshold

Not determined for the mixture.

Melting point / freezing point

Not determined for the mixture.

Boiling point or initial boiling point and boiling range

Not determined for the mixture.

Flammability

Not applicable.

Lower and upper explosion limit

Not applicable.

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



Flash point

No data available

Auto-ignition temperature

Not determined for the mixture.

Decomposition temperature

Not determined for the mixture.

pH

< 0.5

Kinematic viscosity

Not determined for the mixture.

Viscosity, dynamic

Not determined for the mixture.

Solubility

Water soluble

Water solubility

Miscibility

Partition coefficient n-octanol/water

Not determined for the mixture.

Vapour pressure

Not determined for the mixture.

Density and/or relative density

1.31 g/cm³

Relative vapour density

Not determined for the mixture.

Evaporation Rate

Not determined for the mixture.

Explosive properties

The product / mixture has no explosive properties.

Oxidising properties

The product / mixture has no oxidizing properties.

VOC %

< 3 %

Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal conditions

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

None under normal use.

Neutralization can generate a lot of heat.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

Oxidizing agents, strong acids, strong bases.

10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

Corrosive - Combustion produces caustic fumes.

SECTION 11: Toxicological information

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

Toxicology data for the components

Acute toxicity

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

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
phosphoric acid 7664-38-2 / 231-633-2	LC50	850 mg/l	Inhalative	2h	rat	-	-
phosphoric acid 7664-38-2 / 231-633-2	LD50	2740 mg/kg	Dermal	-	rabbit	-	-
phosphoric acid	LD50	> 300 - < 2.000 mg/kg	Oral	-	rat	OECD 423	-

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05

KLEEN
PURGATIS

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
7664-38-2 / 231-633-2							
citric acid 77-92-9 / 201-069-1	LD50	5.400 mg/kg	Oral	-	mouse	OECD 401	ECHA
citric acid 77-92-9 / 201-069-1	LD50	>2.000 mg/kg	Dermal	-	rat	OECD 402	ECHA

Skin corrosion/irritation

Skin corrosion, hazard category 1B

Serious eye damage/irritation

Causes eye burns.

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
 Issued: 2026-07-08
 Replaces SDS: 2025-11-05



SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
citric acid 77-92-9 / 201-069-1	LC50	440 mg/l	48 h	Leuciscus idus	OECD 203	ECHA
phosphoric acid 7664-38-2 / 231-633-2	LC50	98-106 mg/l	96h	Lepomis macrochirus	-	-

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species
phosphoric acid 7664-38-2 / 231-633-2	EC50	>100 mg/l	72h	Growth rate	algae

Acute crustacean toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
phosphoric acid 7664-38-2 / 231-633-2	EC50	>100 mg/l	48h	Daphnia magna (Water flea)	OECD 202	-
citric acid 77-92-9 / 201-069-1	LC50	1.535 mg/l	24 h	Daphnia magna	-	ECHA

Micro-/macro organism toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
phosphoric acid 7664-38-2 / 231-633-2	EC50	>100 mg/l	3h	Activated sludge	OECD 209

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



12.2. Persistence and degradability

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

Product / Substance name CAS / EC no.	PBT / vPvB
phosphoric acid 7664-38-2 / 231-633-2	Not PBT / Not vPvB
citric acid 77-92-9 / 201-069-1	Not PBT / Not vPvB

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

12.7. Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

Other

German Water Class

WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging : Dispose of as unused product.

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



Waste code	Waste description
06 01 04*	phosphoric and phosphorous acid

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

UN 1805

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name
PHOSPHORIC ACID, SOLUTION

IMDG proper shipping name
PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es)

Label
ADR/RID/ADN



8

ADR / RID Class
8

ADR / RID Classification code
C1

ADR / RID hazard identification number
80

IMDG Class
8

IATA Class
8

ADN Class
8

ADN Class Code
C1

14.4. Packing group

III

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



14.5. Environmental hazards

Environmental hazards

-

IMDG Marine Pollutant

No

14.6. Special precautions for user

Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

IMDG EmS

F-A, S-B

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other

Additional information ADR-RID

LQ: 5 L

EQ: E1

Transport category (tunnel restriction code): 3 (E)

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: < 5 % non-ionic surfactants.

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: No

Substance restrictions according to Annex XVII: No

Substances on the REACH candidate list (SVHC): No

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

SECTION 16: Other information

Changes to previous revision

Section 9. Physical and chemical properties: colour

Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
 Issued: 2026-07-08
 Replaces SDS: 2025-11-05



ATE - Acute Toxicity Estimate
 BCF - Bioconcentration Factor
 CAS - Chemical Abstracts Service
 CE - Conformité Européenne (European conformity)
 CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 CSA - Chemical Safety Assessment
 CSR - Chemical Safety Report
 DMEL - Derived Minimal Effect Level
 DNEL - Derived No Effect Level
 EINECS - European Inventory of Existing Commercial chemical Substances
 ES - Exposure Scenario
 EUH statement - CLP-specific Hazard statement
 EuPCS - European Product Categorisation System
 EWC - European Waste Catalogue
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals
 GWP - Global warming potential
 IARC - International Agency for Research on Cancer (IARC)
 IATA - International Air Transport Association
 IBC - Intermediate Bulk Container
 IMDG - International Maritime Dangerous Goods
 LogPow - logarithm of the octanol/water partition coefficient
 MARPOL - International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)
 OECD - Organisation for Economic Co-operation and Development
 PBT - Persistent, Bioaccumulative and Toxic
 PNEC - Predicted No Effect Concentration
 RID - The Regulations concerning the International Carriage of Dangerous Goods by Rail
 RRN - REACH Registration Number
 SCL - A specific concentration limit
 STOT-RE - Specific Target Organ Toxicity - Repeated Exposure
 STOT-SE - Specific Target Organ Toxicity - Single Exposure
 SVHC - Substances of Very High Concern
 TWA - Time weighted average
 UN - United Nations
 UVBC - Unknown or variable composition, complex reaction products or of biological materials
 VOC - Volatile Organic Compound
 vPvB - Very Persistent and Very Bioaccumulative

References to key literature and data sources

REACH registration dossiers
 ECHA C&L - Inventory
 Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:
 Health hazards: calculation method

According to Regulation (EC) No 1907/2006

PARA KALKLÖSER

Version number: 6.3
Issued: 2026-07-08
Replaces SDS: 2025-11-05



Phrase meaning

Skin Corr. 1B - Skin corrosion, hazard category 1B

Eye Dam. 1 - Serious eye damage, hazard category 1

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.