

According to Regulation (EC) No 1907/2006

# Para Decalcifier Liquid



Version number: 6.0  
Issued: 2021-08-23  
Replaces SDS: ver. 5.1; 2019-10-14

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

### 1.1. Product identifier

**Trade name**

Para Decalcifier Liquid

**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

Street address

Dieselstraße 10

32120 Hiddenhausen

Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Fax

+49 (0) 5223 9970-195

Web site

<https://www.kleenpurgatis.de>

**Contact person**

Regulatory Affairs

**Email address**

info@budich.de

### 1.4. Emergency telephone number

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

**Available outside office hours**

Yes

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## 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

#### Hazard statements

H314

### 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

P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face 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

Hazardous components which must be listed on the label: 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.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	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	H319 - -	-

#### **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 for at least 15 minutes while removing contaminated clothing and shoes. 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**

Do not induce vomiting. Drink water. Call physician immediately.

#### **Information for doctors**

For specialist advice physicians should contact the Poisons Information Service.

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

### Inhalation

Irritation and / or corrosion of the respiratory tract

### Skin contact

Causes severe burns.

### Eye contact

Causes serious eye damage. May cause blindness.

### 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, extinguishing powder, foam or carbon dioxide.

#### 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

The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.

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## 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).

## 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 <sup>3</sup>	Short-term exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
phosphoric acid (EU)	7664-38-2	-	-	-	-	-
	231-633-2	1	2			

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## 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) Dermal	0.1 mg/kg	Consumers	Systemic

## PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
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 (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 (EN 166)

### Hand protection

Wear chemical-resistant disposable protective gloves according to EN 374. Suitable material: Butyl (butyl rubber) or NBR (nitrile rubber), category III according to EN 374. 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. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. The exact break through time can be obtained from the protective glove producer and this has to be observed.

### 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

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state**

Liquid

**Colour**

Red

**Odour**

fresh scent

**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.

**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

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### 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/cm<sup>3</sup>

### 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.

## 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

strong acids and strong bases . oxidizing agents



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## 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
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
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 7664-38-2 / 231-633-2	LD50	>500-2.000 mg/kg	Oral	-	rat	OECD 423	-

#### Skin corrosion/irritation

Skin corrosion, hazard category 1B

#### Serious eye damage/irritation

Causes eye burns.

#### Germ cell mutagenicity

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

#### Mutagenicity

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

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**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.

**SECTION 12: Ecological information****12.1. Toxicity****Acute fish toxicity**

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

**Acute algae toxicity**

Product / Substance 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

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## Acute crustacean toxicity

Product / Substance 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 (Water flea)	-	ECHA

## Micro-/macro organism toxicity

Product / Substance 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

### 12.2. Persistence and degradability

#### 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

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

### 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

#### 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.

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## 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.

Waste code	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

PHOSPHORIC ACID, SOLUTION

#### IMDG proper shipping name

PHOSPHORIC ACID, SOLUTION

### 14.3. Transport hazard class(es)

#### Label



8

#### ADR / RID Class

8

#### ADR / RID Classification code

C1

#### ADR / RID hazard identification number

80

#### IMDG Class

8

#### IATA Class

8

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**ADN Class**

8

**ADN Class Code**

C1

**14.4. Packing group**

III

**14.5. Environmental hazards**

**Environmental hazards**

-

**IMDG Marine Pollutant**

No

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

Tunnel restriction E

Special Provisions -

LQ: 5L

EQ: E1

Transport category 3

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.

**Other**

No data available

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## 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

Adaptation to the amending regulation (EU) 2020/878

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## **Abbreviations**

ADN - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ADR - Accord relatif au transport international des marchandises Dangereuses par Route  
CAS - Chemical Abstract Service  
CLP - Classification, Labelling and Packaging  
DMEL - Derived Minimum Effect Level  
DNEL - Derived no effect level  
EC50 - Half maximal effective concentration 50%  
GHS - Globally Harmonised System  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal concentration 50%  
LD50 - Lethal dosis 50 %  
MARPOL - International Convention for the Prevention of Pollution from Ships  
PBT - Persistent, bioaccumulative and toxic substance  
PEC - Predicted Environmental Concentration  
PNEC - predicted no effect concentration  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID - Reglement concernant le transport international ferroviaire de marchandises Dangereuses  
SVHC - Substance of very high concern  
vPvB - Very persistent, very bioaccumulative substance

## **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

## **Phrase meaning**

Skin Corr. 1B - Skin corrosion, hazard category 1B  
Eye Irrit. 2 - Eye irritation, hazard category 2  
H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.

## **Other**

### **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.