

# Carrière

Version number: 7  
Issued: 2023-08-10  
Replaces SDS: 2022-02-22



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

### 1.1. Product identifier

**Trade name**

Carrière

**UFI code**

EVM2-858Q-T719-HA83

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

**Relevant identified uses**

Water softener for the washing machine 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

www.kleenpurgatis.de

**Contact person**

Regulatory Affairs

**Email address**

info@kleen-purgatis.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

Eye irritation, hazard category 2

Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

#### Hazard statements

H319, H335

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### Precautionary statements

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280.3 Wear eye protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

### 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
citric acid	77-92-9 201-069-1 01-2119457026-42-xxxx -	20 - 50%	Eye Irrit. 2, STOT SE 3 - resp. tract irrit.	H319, H335 - -	-
sodium carbonate	497-19-8 207-838-8 01-2119485498-19-xxxx 011-005-00-2	1 - 10%	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**

Not applicable.

#### **Skin contact**

Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician.

#### **Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

#### **Ingestion**

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Consult a physician if necessary.

#### **Information for doctors**

Show this safety data sheet to the doctor in attendance.

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

Immediate effects can be expected after long-term exposure.

#### **Inhalation**

Not applicable.

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## **Skin contact**

skin rashes , Skin irritation

## **Eye contact**

Eye irritation Cloudy / blurred field of vision. excessive lachrymation

## **Ingestion**

Nausea , vomiting , Stomach/intestinal disorders

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

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

water spray, extinguishing powder, foam or carbon dioxide . Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **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**

Hazardous decomposition products formed under fire conditions.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

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

#### **Measures in case of fire**

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. Avoid direct contact with the material / product.

### **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**

Use mechanical handling equipment. Dispose of as hazardous waste in compliance with local and national regulations.

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## 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.

#### 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

Keep away from children. Store in a place accessible by authorized persons only. Keep away from food, drink and animal feeding stuffs. Keep in a dry, cool place.

Storage class according to TRGS 510: 13 (non-combustible solids)

Store in original container.

Storage temperature: 10°C to 40°C

### 7.3. Specific end use(s)

See section 1.2: Water softener for the washing machine  
 PC35 - Washing and cleaning products (including solvent based products)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
sodium carbonate (497-19-8/207-838-8)	DNEL	Chronic (long term) Inhalation	10 mg/m <sup>3</sup>	Workers	Local

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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

Not required.

### Eye / face protection

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

### Hand protection

Chemical-resistant protective gloves (EN 374)

### Other skin protection

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

### Respiratory protection

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

### Thermal hazards

Not applicable.

### Environmental exposure controls

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

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

#### Physical state

Tablet

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## Colour

2 Phases (yellow / white)

## Odour

odourless

## Odour threshold

Not determined for the mixture.

## Melting point / freezing point

Not applicable.

## Boiling point or initial boiling point and boiling range

Not applicable.

## Flammability

Not applicable.

## Lower and upper explosion limit

The product / mixture has no explosive properties.

## Flash point

No data available

## Auto-ignition temperature

Not applicable.

## Decomposition temperature

Not determined for the mixture.

## pH

6 - 7

## Kinematic viscosity

Not applicable.

## Viscosity, dynamic

Not applicable.

## Solubility

Water soluble

## Water solubility

completely soluble

## Partition coefficient n-octanol/water

Not determined for the mixture.

## Vapour pressure

Not applicable.

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## **Density and/or relative density**

975 kg/m<sup>3</sup>

### **Method**

Bulk density

## **Relative density**

Not determined for the mixture.

## **Relative vapour density**

Not applicable.

## **Evaporation Rate**

Not applicable.

## **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**

None under normal use.

### **10.2. Chemical stability**

Stable at normal conditions

### **10.3. Possibility of hazardous reactions**

None under normal use.

### **10.4. Conditions to avoid**

Protect from moisture. Protect from frost, heat and sunlight.

### **10.5. Incompatible materials**

Oxidizing agent , strong acids and strong bases

### **10.6. Hazardous decomposition products**

For information on combustion products, see Section 5.

Hazardous decomposition products formed under fire conditions.



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## SECTION 11: Toxicological information

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

#### Acute toxicity

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

Toxicology data for the components :

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
sodium carbonate 497-19-8 / 207-838-8	LD50	2.800 mg/kg	Oral	-	rat	-	-
sodium carbonate 497-19-8 / 207-838-8	LD50	>2.000mg/kg	Dermal	-	rabbit	-	-
sodium carbonate 497-19-8 / 207-838-8	LC50	2.300 mg/m <sup>3</sup>	Inhalativ	2h	rat	-	-

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

Eye irritation, hazard category 2 - Causes serious eye irritation.

#### Respiratory or skin sensitisation

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

#### Germ cell mutagenicity

Based on 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.

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**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****Toxicity**

Toxicology data for the components :

**Acute fish toxicity**

Product / Substance 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	Golden orfe	OECD 203	ECHA
sodium carbonate 497-19-8 / 207-838-8	LC50	300 mg/l	96h	Lepomis macrochirus	-	-

**Acute crustacean toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
citric acid 77-92-9 / 201-069-1	LC50	1.535 mg/l	24 h	Daphnia magna (Water flea)	ECHA
sodium carbonate 497-19-8 / 207-838-8	EC50	200-227 mg/l	48h	Ceriodaphnia dubia	-

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## 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.

## 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	Waste description
20 01 29*	detergents containing hazardous substances

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

## SECTION 14: Transport information

### 14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

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## 14.2. UN proper shipping name

### ADR / RID / ADN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

## 14.3. Transport hazard class(es)

### Label

Not classified as dangerous in the meaning of transport regulations.

## 14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

## 14.5. Environmental hazards

### Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

## 14.6. Special precautions for user

### Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

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

Not classified as dangerous in the meaning of transport regulations.

## Other

Not applicable

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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 - 15% polycarboxylates

Regulation (EC) No. 1907/2006 (REACH)  
Substances subject to authorization according to Annex XIV: not applicable  
Substance restrictions according to Annex XVII: not applicable  
Substances on the REACH candidate list (SVHC): not applicable

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

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: No

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.

### 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

#### 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

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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**

STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation  
Eye Irrit. 2 - Eye irritation, hazard category 2  
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.