

According to Regulation (EC) No 1907/2006

PRESTAN® GLÄSERSPÜLMITTEL

Version number: 5.1
Issued: 2025-07-10
Replaces SDS: 2021-09-29



KLEEN
PURGATIS

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

1.1. Product identifier

Trade name

PRESTAN® GLÄSERSPÜLMITTEL

UFI code

QP2K-6D0M-NU0X-DYU9

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

Relevant identified uses

Liquid glasswashing detergent 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

Fax

+49 (0) 5223 9970-195

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

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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 1A

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

Hazardous components which must be listed on the label
potassium hydroxide

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-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33-xxxx 019-002-00-8	5 - 10%	Acute Tox. 4 - oral, Skin Corr. 1A	H302, H314 - -	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: $0.5\% \leq C < 2\%$ ATE [Oral]: 333 mg/kg bw	-
citric acid	77-92-9 201-069-1 01-2119457026-42-xxxx -	1 - 5%	Eye Irrit. 2, STOT SE 3 - resp. tract irrit.	H319, H335 - -		-

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

Take the victim into fresh air. If symptoms persist, call a physician.

Skin contact

Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water. Consult a physician if necessary.

Eye contact

Call a physician immediately. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.

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Ingestion

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Get medical attention immediately.

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

Hazards identification: shortness of breath / cough

Skin contact

Causes severe skin burns.

Eye contact

Causes severe eye burns.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide (CO₂).

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

Corrosive.

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.

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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. Ensure adequate ventilation.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Dam up.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
 Suitable material for dilution or neutralization: water, acetic acid, diluted. Ventilate the area.

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

Wash hands after handling.
 When using, do not eat, drink or smoke.
 The usual precautionary measures when handling chemicals must be observed.

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.
 Unsuitable materials for containers aluminium

Storage temperature: 10 °C to 40 °C

7.3. Specific end use(s)

See section 1.2: Liquid glasswashing detergent
 PC35 - Washing and cleaning products (including solvent based products)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
potassium hydroxide (1310-58-3/215-181-3)	DNEL	Chronic (long term) Inhalation	1 mg/m ³	Workers	Local

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.

Personal Protective Equipment Symbols



Eye / face protection

Safety glasses with side-shields conforming to EN166

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Hand protection

Chemical-resistant protective gloves (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. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

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

Liquid

Colour

Colourless

Odour

Product specific

Odour threshold

Not applicable.

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

The product / mixture has no explosive properties.

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Flash point

No data available

Auto-ignition temperature

Not applicable.

Decomposition temperature

Not applicable

pH

12

Method

1 % aqueous solution

Kinematic viscosity

Not determined for the mixture.

Viscosity, dynamic

Not determined for the mixture.

Solubility

Not determined for the mixture.

Water solubility

miscible

Partition coefficient n-octanol/water

Not available

Vapour pressure

Not available

Density and/or relative density

1.13 g/cm³

Relative vapour density

Not applicable.

Evaporation Rate

Not determined for the mixture.

Explosive properties

Not explosive

Oxidising properties

The product / mixture has no oxidizing properties.

VOC %

< 3 %

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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.

10.4. Conditions to avoid

Avoid temperatures above 60°C, direct sunlight and contact with sources of heat.

10.5. Incompatible materials

Strong acids, light metals

10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

Hazardous decomposition products formed under fire conditions.

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 / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline	Remarks
potassium hydroxide 1310-58-3 / 215-181-3	LD50	333-388 mg/kg	Oral	rat	-	ECHA
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

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Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes severe eye burns.

Respiratory or skin sensitisation

Based on the 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.

Repeated dose toxicity

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

Toxicity

No data is available on the product itself.

Toxicology data for the components .

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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

Acute crustacean toxicity

Product / Sub- stance 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	ECHA

12.2. Persistence and degradability

Not available

12.3. Bioaccumulative potential

No information is available for this item.

12.4. Mobility in soil

Mobility

No information is available for this item.

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

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

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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

Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers.

Contaminated packaging: Dispose of as unused product.

Waste code	Waste description
06 02 04*	sodium and potassium hydroxide

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

SECTION 14: Transport information

14.1. UN number

1814

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

IMDG proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



8

ADR / RID Class

8

ADR / RID Classification code

C5

ADR / RID hazard identification number

80

IMDG Class

8

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IATA Class

8

ADN Class

8

ADN Class Code

C5

14.4. Packing group

II

14.5. Environmental hazards

Environmental hazards

No

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: 1L

EQ: E2

Transport category (tunnel restriction code): 2 (E)

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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 % phosphonates, polycarboxylates.

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

EU 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

General update without changes.

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

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CAS - Chemical Abstract Service
 CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL - Derived Minimum Effect Level
 DNEL - Derived No Effect Level
 EC50 - Half maximal effective concentration 50%
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals
 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, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)
 PBT - Persistent, bioaccumulative and toxic substance
 PEC - Predicted Environmental Concentration
 PNEC - Predicted No Effect Concentration
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID - The regulations concerning the International Carriage of Dangerous Goods by Rail
 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. 1A - Skin corrosion, hazard category 1A
 Eye Dam. 1 - Serious eye damage, hazard category 1
 Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
 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
 H302 Harmful if swallowed.
 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.

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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.