

# Prestan HCF

Version number: 2.0  
Issued: 2021-10-25  
Replaces SDS: 2018-09-25



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

### 1.1. Product identifier

**Trade name**

Prestan HCF - Ecolabel

**UFI code**

YAGT-2SEU-ST0Y-HVVY

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

**Relevant identified uses**

Alkaline dishwashing 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

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@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 1A

#### 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

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

P280 Wear protective gloves/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.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P310 Immediately call a POISON CENTER/doctor.

#### More information

Hazard components for labeling:

sodium hydroxide

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-phrase M factor acute M factor chronic	Note
sodium hydroxide	1310-73-2 215-185-5 01-2119457892- 27-xxxx 011-002-00-6	10 - 20%	Skin Corr. 1A	H314 - -	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %;
potassium hydroxide	1310-58-3 215-181-3 01-2119487136- 33-xxxx 019-002-00-8	1 - 5%	Skin Corr. 1A, Acute Tox. 4 - oral	H302, H314 - -	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %;
1-hydroxyethane-1,1- diphosphonic acid, 60%	2809-21-4 220-552-8 01-2119510391- 53-xxxx -	1 - 5%	Met. Corr. 1, Eye Dam. 1	H290, H318 - -	-

#### **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 breathed in, move person into fresh air. Consult a physician if necessary.

#### **Skin contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Call a physician immediately.

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## **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**

Show this safety data sheet to the doctor in attendance.

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

### **Inhalation**

shortness of breath / cough

### **Skin contact**

blistering / ulceration

### **Eye contact**

Small amounts splashed into eyes can cause irreversible tissue damage and 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. For specialist advice physicians should contact the Poisons Information Service.

## **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 Material

By heating or fire toxic gas is liberated.

### **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. Ensure adequate ventilation, especially in confined areas.  
Evacuate unaffected personnel from the spill area.

### 6.2. Environmental precautions

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

### 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).  
Use neutralizing agents.

### 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: Alkaline dishwashing 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
sodium hydroxide (1310-73-2/215-185-5)	DNEL	Chronic (long term) Inhalation	1 mg/m <sup>3</sup>	Workers	Local
potassium hydroxide (1310-58-3/215-181-3)	DNEL	Chronic (long term) Inhalation	1 mg/kg	Workers	Local

### 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

Chemical resistant gloves made of butyl rubber or 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

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Colourless

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## Odour

odourless

## 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

14

## Kinematic viscosity

Not determined for the mixture.

## Viscosity, dynamic

Not determined for the mixture.

## Solubility

No data available

## Water solubility

miscible

## Partition coefficient n-octanol/water

Not determined for the mixture.

## Vapour pressure

Not determined for the mixture.

## Density and/or relative density

1.278 g/cm<sup>3</sup>

According to Regulation (EC) No 1907/2006

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## 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.

### 10.4. Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

## 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.



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Remarks
potassium hydroxide 1310-58-3 / 215-181-3	LD50	333-388 mg/kg	Oral	rat	ECHA
1-hydroxyethane-1,1-diphosphonic acid 2809-21-4 / 220-552-8	LD50	1878 mg/kg	Oral	rat	-

**Skin corrosion/irritation**

Skin corrosion, hazard category 1A  
 Causes severe skin burns.

**Serious eye damage/irritation**

Causes serious eye damage.

**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.

**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.

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## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1-hydroxyethane-1,1-diphosphonic acid 2809-21-4 / 220-552-8	LC50	368 mg/l	96 h	Rainbow trout
1-hydroxyethane-1,1-diphosphonic acid 2809-21-4 / 220-552-8	LC50	868 mg/l	96 h	Lepomis macrochirus

#### Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1-hydroxyethane-1,1-diphosphonic acid 2809-21-4 / 220-552-8	EC50	7,2 mg/l	96 h	algae

#### Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
sodium hydroxide 1310-73-2 / 215-185-5	EC50	40,4 mg/l	48 h	Ceriodaphnia dubia (Wasserfloh)	ECHA
1-hydroxyethane-1,1-diphosphonic acid 2809-21-4 / 220-552-8	EC50	527 mg/l	48h	Daphnia magna (Water flea)	-

### 12.2. Persistence and degradability

#### Persistence and degradability

No information available

#### Decay/transformation

No information available

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### 12.3. Bioaccumulative potential

**Bioaccumulative potential**

No information 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	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

UN 1824

### 14.2. UN proper shipping name

SODIUM HYDROXIDE SOLUTION

**IMDG proper shipping name**

SODIUM HYDROXIDE SOLUTION

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## 14.3. Transport hazard class(es)

### Label



8

### ADR / RID Class

8

### ADR / RID Classification code

C5

### ADR / RID hazard identification number

80

### IMDG Class

8

### IATA Class

8

### ADN Class

8

### ADN Class Code

C5

## 14.4. Packing group

III

## 14.5. Environmental hazards

No data available

## 14.6. 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 applicable.

## Other

### Additional information ADR-RID

LQ: 5 L

EQ: E1

Transport category (tunnel restriction code): 3 (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)

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 (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. 1A - Skin corrosion, hazard category 1A  
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4  
Met. Corr. 1 - Corrosive to metals, hazard category 1  
Eye Dam. 1 - Serious eye damage, hazard category 1  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

## **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.

According to Regulation (EC) No 1907/2006

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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.