

# Prestan EKF

Version number: 7.0  
Issued: 2021-10-25  
Replaces SDS: 2020-12-15



KLEEN  
PURGATIS

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

### 1.1. Product identifier

**Trade name**

Prestan EKF

**UFI code**

3M35-KU9K-8YOH-YUY6

### 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

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

Skin corrosion, hazard category 1A  
Acute toxicity, inhalation, hazard category 4  
Corrosive to metals, hazard category 1

#### Hazard statements

H290, H314, H332

#### Supplemental hazard statements

EUH071

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

#### Supplemental hazard statements

EUH071 Corrosive to the respiratory tract.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P234 Keep only in original packaging.  
P261 Avoid breathing mist/vapours/spray.  
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:  
Nitric acid

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## 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.

## 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
Nitric acid	7697-37-2 231-714-2 01-2119487297- 23-xxxx 007-004-00-1	10 - <26%	Ox. Liq. 2, Met. Corr. 1, Skin Corr. 1A	H272, H290, H314, EUH071 - ATE = 2.65 mg/L (Vapours)	Ox. Liq. 2; H272: C ≥ 99 % Ox. Liq. 3; H272: 65 % ≤ C < 99 % Skin Corr. 1A; H314: C ≥ 20 % Skin Corr. 1B; H314: 5 % ≤ C < 20 %; B

### 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 soap and plenty of water. Remove/Take off immediately all contaminated clothing. 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

Show this safety data sheet to the doctor in attendance.

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

### Inhalation

shortness of breath / cough

### Skin contact

Causes severe skin burns.

### Eye contact

Causes eye burns. 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. 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 jet , carbon dioxide (CO<sub>2</sub>) .

#### Unsuitable extinguishing media

Foam / sand / dry powder. 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. Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

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

### 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

Dam up. The product should not be allowed to enter drains, water courses or the soil.

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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)

PC36 - Water softeners  
 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
Nitric acid (EU)	7697-37-2	-	1	2006/15/EG	-	-
	231-714-2	-	2.6			

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## 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

light yellow

#### Odour

stinging

#### 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

> 100 °C

#### Flammability

Not applicable.

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## **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**

< 1

## **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**

No data available

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

1.156 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.

## **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

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## 9.2. Other information

Conductivity: 16 mS/cm

## 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

Organic materials. Alkalis. Corrodes base metals.

### 10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

By heating or fire toxic gas is liberated. Release of hydrogen (H<sub>2</sub>).

## 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

Corrosive to the respiratory tract

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Remarks
Nitric acid 7697-37-2 / 231-714-2	LC50	>2,65 mg/l	Inhalative	4h	rat	ECHA

#### Skin corrosion/irritation

Skin corrosion, hazard category 1A

#### Serious eye damage/irritation

Causes serious eye damage.



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**Germ cell mutagenicity**

Based on 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.

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

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
Nitric acid 7697-37-2 / 231-714-2	LC50	1,25 - 2,5 mg/l	48h	Ceriodaphnia dubia	ECHA

**12.2. Persistence and degradability****Persistence and degradability**

No information available

**Decay/transformation**

No information available

According to Regulation (EC) No 1907/2006

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## 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	Description
06 01 05*	nitric acid and nitrous acid

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

## SECTION 14: Transport information

### 14.1. UN number

2031

### 14.2. UN proper shipping name

nitric acid

#### IMDG proper shipping name

NITRIC ACID

According to Regulation (EC) No 1907/2006

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## 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

### ADN Class

8

### ADN Class Code

C1

## 14.4. Packing group

II

## 14.5. Environmental hazards

### Environmental hazards

No

### IMDG Marine Pollutant

No

## 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: 1 L

EQ: E2

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

According to Regulation (EC) No 1907/2006

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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: Exempt

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: nitric acid (CAS: 7697-37-2)  
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  
Environmental hazards: calculation method

## **Phrase meaning**

Ox. Liq. 2 - Oxidising liquids, hazard category 2  
Skin Corr. 1A - Skin corrosion, hazard category 1A  
H272 May intensify fire; oxidiser.  
H314 Causes severe skin burns and eye damage.  
EUH071 Corrosive to the respiratory tract.

## **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.