

According to Regulation (EC) No 1907/2006

PRESTAN® POWER BLOC

Version number: 1
Issued: 2025-01-24



KLEEN
PURGATIS

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

1.1. Product identifier

Trade name

PRESTAN® POWER BLOC

UFI code

0D6E-J20E-D38V-QT8Q

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

Relevant identified uses

Dish 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

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 1

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.

P501 Dispose of contents to a hazardous or special waste disposal facility.

More information

Hazard components for labeling:

sodium hydroxide

disodium metasilicate

2.3. Other hazards

No data available

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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-pharse M factor acute M factor chronic	Specific concentration limits ATE	Note
sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27-xxxx 011-002-00-6	40 - <60%	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%	-
disodium metasilicate	6834-92-0 229-912-9 01-2119449811-37-xxxx 014-010-00-8	10 - 15%	Skin Corr. 1B, STOT SE 3	H314, H335 - -		
Silicic acid, sodium salt	1344-09-8 215-687-4 01-2119448725-31-xxxx -	1 - <5%	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 - resp. tract irrit.	H315, 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

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention immediately if irritation develops and persists.

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

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

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Information for doctors

For specialist advice physicians should contact the Poisons Information Service.

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

Immediate effects can be expected after long-term exposure.

Inhalation

Not applicable.

Skin contact

Causes burns.

Eye contact

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.

Show this safety data sheet to the doctor in attendance.

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.

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.

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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.

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

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

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

Storage class according to TRGS 510: 8B (non-flammable, corrosive hazardous substances)

Suitable container and packaging materials for safe storage: store in original container.

Storage temperature: 10 °C to 40 °C

7.3. Specific end use(s)

PC35 - Washing and cleaning products (including solvent based products)

See section 1.2: Dish detergent

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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 ³	Workers	Local
disodium metasilicate (6834-92-0/229-912-9)	DNEL	Chronic (long term) Inhalation	6.22 mg/m ³	Workers	Systemic
disodium metasilicate (6834-92-0/229-912-9)	DNEL	Chronic (long term) Dermal	1.49 mg/kg	Workers	Systemic
disodium metasilicate (6834-92-0/229-912-9)	DNEL	Chronic (long term) Inhalation	1.55 mg/m ³	Consumers	Systemic
disodium metasilicate (6834-92-0/229-912-9)	DNEL	Chronic (long term) Oral	0.74 mg/kg	Consumers	Systemic
Silicic acid, sodium salt (1344-09-8/215-687-4)	DNEL	Chronic (long term) Inhalation	5.61 mg/m ³	Workers	Systemic
Silicic acid, sodium salt (1344-09-8/215-687-4)	DNEL	Chronic (long term) Dermal	1.59 mg/kg bw/day	Workers	Systemic
Silicic acid, sodium salt (1344-09-8/215-687-4)	DNEL	Chronic (long term) Oral	0.8 mg/kg bw/day	Consumers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
disodium metasilicate (6834-92-0/229-912-9)	PNEC	Freshwater	7.5 mg/l
disodium metasilicate (6834-92-0/229-912-9)	PNEC	Marine water	1 mg/l
disodium metasilicate (6834-92-0/229-912-9)	PNEC	Sewage Treatment Plant	1 g/l
Silicic acid, sodium salt (1344-09-8/215-687-4)	PNEC	Freshwater	7.5 mg/l
Silicic acid, sodium salt (1344-09-8/215-687-4)	PNEC	Marine water	1 mg/l
Silicic acid, sodium salt (1344-09-8/215-687-4)	PNEC	Sewage Treatment Plant	348 mg/l

8.2. Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

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Personal Protective Equipment Symbols



Eye / face protection

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

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

Solid

Colour

white

Odour

characteristic

Melting point / freezing point

Not applicable.

Boiling point or initial boiling point and boiling range

Not applicable.

Flammability

Not applicable.

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Lower and upper explosion limit

The product / mixture has no explosive properties.

Flash point

No data available

Auto-ignition temperature

Not applicable.

Decomposition temperature

No data available

pH

12.8

Method

1 % aqueous solution

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.

Density and/or relative density

1.75 g/cm³

Method

20 °C

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.

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Oxidising properties

The product / mixture has no oxidizing properties.

VOC %

< 3 %

Particle characteristics

No data available

9.2. Other information

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

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 moisture. Protect from frost, heat and sunlight.

10.5. Incompatible materials

Strong acids

Light metals

Oxidizing agent

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

No data is available on the product itself. Toxicology data for the components.

Acute toxicity

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

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Remarks
sodium hydroxide	LD50	325 mg/kg bw	Oral	rat	ECHA

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Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Remarks
1310-73-2 / 215-185-5					
disodium metasilicate 6834-92-0 / 229-912-9	LD50	1.150 - 1.350mg/kg 770 - 820 mg/kg	Oral	rat mouse	-
Silicic acid, sodium salt 1344-09-8 / 215-687-4	LD50	3400 mg/kg bw	Oral	rat	ECHA
Silicic acid, sodium salt 1344-09-8 / 215-687-4	LC50	> 2.06 g/m3	Inhalation	rat	ECHA
Silicic acid, sodium salt 1344-09-8 / 215-687-4	LD50	> 5000 mg/kg bw	Dermal	rat	ECHA

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.

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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 .

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
disodium metasilicate 6834-92-0 / 229-912-9	LC50	210 mg/l	96h	Brachydanio rerio

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
disodium metasilicate 6834-92-0 / 229-912-9	EC50	207 mg/l	72h	Chlorella pyrenoidosa

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	ECHA
disodium metasilicate 6834-92-0 / 229-912-9	EC50	1.700 mg/l	48h	Daphnia magna	-

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Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
disodium metasilicate 6834-92-0 / 229-912-9	EC50	>100 mg/l	3h	Bacteria (activated sludge)

12.2. 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 information available.

12.4. Mobility in soil

Mobility

No information available.

12.5. Results of PBT and vPvB assessment

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

Neutralization is normally necessary before waste water is discharged into water treatment plants. Neutralisation will reduce ecotoxic 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

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.
Contaminated packaging / sheets : Dispose of as unused product.

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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

3262

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

Corrosive solid, basic, inorganic, n.o.s. (sodium hydroxide, disodium metasilicate)

IMDG proper shipping name

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, DISODIUM METASILICATE)

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



8

ADR / RID Class

8

ADR / RID Classification code

C6

ADR / RID hazard identification number

80

IMDG Class

8

IATA Class

8

ADN Class

8

ADN Class Code

C6

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14.4. Packing group

II

14.5. Environmental hazards

Environmental hazards

No

IMDG Marine Pollutant

No

14.6. Special precautions for user

IMDG EmS

F-A, S-B

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other

Additional information ADR-RID

LQ: 1 kg

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 % polycarboxylates, non-ionic surfactants.

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.

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SECTION 16: Other information

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
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
CAS - Chemical Abstracts Service
CE - Conformité Européenne (European conformity)
CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
EINECS - European Inventory of Existing Commercial chemical Substances
ES - Exposure Scenario
EUH statement - CLP-specific Hazard statement
EuPCS - European Product Categorisation System
EWC - European Waste Catalogue
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
GWP - Global warming potential
IARC - International Agency for Research on Cancer (IARC)
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
IMDG - International Maritime Dangerous Goods
LogPow - logarithm of the octanol/water partition coefficient
MARPOL - International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)
OECD - Organisation for Economic Co-operation and Development
PBT - Persistent, Bioaccumulative and Toxic
PNEC - Predicted No Effect Concentration
RID - The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN - REACH Registration Number
SCL - A specific concentration limit
STOT-RE - Specific Target Organ Toxicity - Repeated Exposure
STOT-SE - Specific Target Organ Toxicity - Single Exposure
SVHC - Substances of Very High Concern
TWA - Time weighted average
UN - United Nations
UVBC - Unknown or variable composition, complex reaction products or of biological materials
VOC - Volatile Organic Compound
vPvB - Very Persistent and Very Bioaccumulative

References to key literature and data sources

REACH registration dossiers
ECHA C&L - Inventory
Safety data sheets from raw material suppliers

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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. 1 - Skin corrosion, hazard category 1
Eye Dam. 1 - Serious eye damage, hazard category 1
Skin Corr. 1A - Skin corrosion, hazard category 1A
Skin Corr. 1B - Skin corrosion, hazard category 1B
STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3
Skin Irrit. 2 - Skin irritation, hazard category 2
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
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
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.

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.