

According to Regulation (EC) No 1907/2006

PRODIL® BLEACH

Version number: 1.1
Issued: 2025-11-06
Replaces SDS: 2024-06-07



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

1.1. Product identifier

Trade name

PRODIL® BLEACH

UFI code

R7AY-5HUD-VG73-5J00

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

Relevant identified uses

Concentrated liquid bleach 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

Corrosive to metals, hazard category 1
Skin corrosion, hazard category 1A
Serious eye damage, hazard category 1
Hazardous to the aquatic environment — Acute hazard category 1
Hazardous to the aquatic environment — Chronic hazard category 2

Hazard statements

H290, H314, H318, H400, H410, H411

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.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental hazard statements

EUH031 Contact with acids liberates toxic gas.

Precautionary statements

P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

More information

Hazard components for labeling: sodium hypochlorite

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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	Specific concentration limits ATE	Note
sodium hypochlorite, solution 13% Cl active	7681-52-9 231-668-3 01-2119488154-34-xxxx -	90 - <100%	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2, STOT SE 3	H290, H314, H318, H335, H400, H411, EUH031 M-acut=10 M-chro=1		EUH031: C ≥ 5 %
sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27-xxxx 011-002-00-6	0.5 - <1%	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%	-

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 . Consult a physician if necessary.

Skin contact

In case of contact, immediately flush skin with soap and plenty of water. 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.

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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

Irritation and / or corrosion of the respiratory tract.

Skin contact

Causes severe burns.

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. Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

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

Other

Other

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

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)

See section 1.2: Concentrated liquid bleach

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Short-term exposure limit ppm / mg/m³	Source	Remark	Year
sodium hypochlorite, solution 13% Cl active (EU)	7681-52-9 231-668-3	- / - /	0.5 / 1.5 /		7782-50-5 Chlorine	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
sodium hypochlorite, solution 13% Cl active (7681-52-9/231-668-3)	DNEL	Chronic (long term) Oral	0.26 mg/kg	Consumers	Systemic
sodium hydroxide (1310-73-2/215-185-5)	DNEL	Chronic (long term) Inhalation	1 mg/m³	Workers	Local
sodium hydroxide (1310-73-2/215-185-5)	DNEL	Chronic (long term) Inhalation	1 mg/m³	Consumers	Local

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
sodium hypochlorite, solution 13% Cl active (7681-52-9/231-668-3)	PNEC	Freshwater	0.00021 mg/l
sodium hypochlorite, solution 13% Cl active (7681-52-9/231-668-3)	PNEC	Sewage Treatment Plant	4.69 mg/l

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Eye / face protection

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

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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

No personal respiratory protective equipment normally required.

In the case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Recommended Filter type: B

Thermal hazards

Not applicable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Yellow

Odour

slight chlorine

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

102 °C

Flammability

Not applicable.

Lower and upper explosion limit

Not applicable.

Flash point

No data available

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Auto-ignition temperature

Not determined for the mixture.

Decomposition temperature

Not determined for the mixture.

pH

13

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

1.266 g/cm³

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 %

0 %

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

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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.
Contact with metals liberates hydrogen gas.
Exothermic reaction with strong acids.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

Acids
Cleansing agents, acidic.
Metals

10.6. Hazardous decomposition products

May develop chlorine if mixed with acidic solutions.
For information on combustion products, see Section 5.
By heating or fire toxic gas is liberated.

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.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
sodium hypo- chlorite, solution 13% Cl active 7681-52-9 / 231-668-3	LD50	1.100 mg/kg	Oral	-	rat	OECD 401
sodium hypo- chlorite, solution 13% Cl active 7681-52-9 / 231-668-3	LC50	10,5 ppm	Inhalation	1h	rat	OECD 403

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Skin corrosion/irritation

Skin corrosion, hazard category 1B

Serious eye damage/irritation

Serious eye damage, hazard category 1

Respiratory or skin sensitisation

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.

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 fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
sodium hypochlorite, solution 13% Cl active 7681-52-9 / 231-668-3	LC50	0,01-0,1 mg/l	96h	Fisch

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Acute crustacean toxicity

Product / Sub-stance 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

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

No information is available for this item.

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

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

WGK2 - significantly 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

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
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

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

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SECTION 14: Transport information

14.1. UN number

1791

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

HYPOCHLORITE SOLUTION

IMDG proper shipping name

HYPOCHLORITE SOLUTION

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



8 Environmental hazard

ADR / RID Class

8

ADR / RID Classification code

C9

ADR / RID hazard identification number

80

IMDG Class

8

IATA Class

8

ADN Class

8

ADN Class Code

C9

14.4. Packing group

II

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14.5. Environmental hazards

Environmental hazards

The product contains following substances which are hazardous for the environment:
sodium hypochlorite

IMDG Marine Pollutant

Yes

14.6. Special precautions for user

Special precautions for user

EMS-Nummer: F-A, S-B

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: > 30 % chlorine-based bleaching agents

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: 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

Change in product identifier (1.1)

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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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

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

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Phrase meaning

Met. Corr. 1 - Corrosive to metals, hazard category 1
Skin Corr. 1A - Skin corrosion, hazard category 1A
Eye Dam. 1 - Serious eye damage, hazard category 1
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
Skin Corr. 1B - Skin corrosion, hazard category 1B
STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH031 Contact with acids liberates toxic gas.

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.