

Safety data sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 30.03.2020 Supersedes edition of: 27.02.2017

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

1.1 Product identifier

Product name: Grillrein

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

Identified uses: Basic cleaner

Only for industrial or commercial use. Not to the general public.

1.3 Details of the supplier of the safety data sheet

Company: Otto Oehme GmbH
Industriestraße 20
D-90584 Allersberg Deutschland
Tel. +49 9176 98050
info@oehme-lorito.de

1.4 Emergency telephone number

GIZ Nord Poisons Centre, Göttingen Tel. +49 (0) 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Met. Corr. 1, H290

Skin Corr. 1A, H314

Eye Dam. 1, H318

Full text of hazard statements: See under section 16.

2.2 Label elements

Labelling (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.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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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 or doctor/physician.

Contains: Potassium hydroxide.

2.3 Other hazards

Nor known.

SECTION 3: Composition / information on ingredients

Solution in water.

Hazardous components (Regulation (EC) No. 1272/2008)

Chemical name				Content
CAS-No.	EC-No.	EC-Index-No.	Labelling according to EC-Regulation	
Potassium hydroxide				< 20%
1310-58-3	215-181-3	019-002-00-8	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314	

REACH Registration Number: 01-2119487136-33

Alcohols, C12-14, ethoxylated, sulfates, sodium salts				< 5 %
68891-38-3	500-234-8		Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	

REACH Registration Number: 01- 2119488639-16

Specific Conc. Limits:

Eye Irrit. 2: 5 – 10 %

Eye Dam. 1: > 10 %

Full text of hazard statements: See under section 16.

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4.1 Description of first aid measures

After inhalation: Fresh air. Call in physician if feeling unwell.

After skin contact: Wash off with plenty of water. Immediately remove contaminated clothing. Call a physician immediately.

After eye contact: Rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist immediately.

After swallowing: Make victim drink plenty of water (two glasses at most), avoid vomiting (risk of perforation). Immediately call in physician. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

Irritation and corrosion, cough, shortness of breath, pain, collapse, death.

Drying-out effect resulting in rough and chapped skin.

Risk of corneal clouding.

Risk of blindness!

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance / mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Further information

Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Caution: Risk of slipping.

Do not inhale vapours/aerosols. Avoid substance contact. Use personal protective equipment as required, see section 8.2. Ensure supply of fresh air in enclosed rooms. In case of inadequate ventilation wear respiratory protection.

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6.2 Environmental precautions

Do not get undiluted into sewerage system.

6.3 Methods and material for containment and cleaning up

Take up with incombustible liquid-absorbent material. Forward for disposal. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Notes for safe handling

Ensure adequate ventilation. Avoid contact with skin and eyes. Do not inhale vapours/aerosols. Avoid generation of vapours/aerosols. See section 8.

Notes for prevention of fire and explosion

Not required.

7.2 Conditions for safe storage, including any incompatibilities

Store cool above 5 °C. Keep away from sun and heat. Tightly closed in a well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Potassium hydroxide

EH40 WEL

Name Potassium hydroxide

Short term exposure limit (STEL) 2 mg/m³

8.2 Exposure controls

Individual protection measures

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye / face protection:

Eye protection (EN 166).

Hand protection:

Material: Nitrile rubber.

Thickness: 0.1 mm

Breakthrough time: > 480 min

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The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374, e.g. Franz Mensch Nitrile Safe Premium. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Respiratory protection:

Required when vapours/aerosols are generated. Filter A2 P2 (EN 14387).

Other protective equipment:

Protective clothing.

Hygiene measures

Change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form:	liquid
Colour:	white
Odour:	characteristic
pH value	14
Melting point	not specified
Boiling point	not specified
Ignition temperature	not applicable
Flash point	not applicable
Explosion limits	lower not applicable
	upper not applicable
Density (23 °C)	~ 1.1 g/cm ³
Viscosity, dynamic	not specified
Solubility in water	soluble

9.2 Other information

None.

SECTION 10: Stability and reactivity**10.1 Reactivity**

See section 10.3.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Risk of explosion with:

Violent reactions possible with:

Azides, strong acids, anhydrides, hydrocarbons, nonmetallic oxides, phosphorus, organic nitro compounds, halogen oxides, nonmetallic oxyhalides, halogenated hydrocarbon, halogen-halogen

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compounds, halogens, alkaline earth metals, Ammonium compounds, light metals, metals.
Gives off hydrogen by reaction with metals.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Animal / vegetable tissues, glass, various plastics, Metals.

10.6 Hazardous decomposition products

See section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD₅₀ rat: 333 mg/kg (OECD 425; potassium hydroxide)

Symptoms: Pain, shock, vomiting, oedema, collapse, death. If ingested, severe burns of the mouth, as well as a danger of perforation of the oesophagus and the stomach,

LD₅₀ rat: > 5000 mg/kg (OECD 401; Alcohols, C12-14, ethoxylated, sulfates, sodium salts)

Acute dermal toxicity

LD₅₀ rabbit: > 5000 mg/kg (OECD 402; Alcohols, C12-14, ethoxylated, sulfates, sodium salts)

Acute inhalation toxicity

Symptoms: Burns of mucous membranes, cough, shortness of breath. Possible damages: Damage of the respiratory tract. Inhalation may lead to the formation of oedemas in the respiratory tract.

Skin irritation

Rabbit: Causes burns (IUCLID; potassium hydroxide, anhydrous).

Drying-out effect resulting in rough and chapped skin. Necrosis.

Mixture causes severe burns.

Rabbit: Irritating (OECD 404; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Eye irritation

Rabbit: Causes serious eye damage (OECD 405; potassium hydroxide, anhydrous).

Risk of corneal clouding. Risk of blindness! Necrosis.

Mixture causes serious eye damage.

Rabbit: Irritating (OECD 405; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Risk of serious damage to eyes.

Sensitisation

Sensitisation test: Guinea pig: Negative (IUCLID; potassium hydroxide, anhydrous).

Guinea pig: Negative (OECD 406; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Genotoxicity in vitro

Mutagenicity: Negative (OECD 471; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Mutagenicity: Ames Test bacteria: Negative (OECD 471; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Mutagenicity

Bacteria: No evidence of genotoxic potential (external MSDS; Alcohols, C12-14, ethoxylated,

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sulfates, sodium salts).

Mammal cell cultures: No evidence of mutagen potential (external MSDS; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Mammals: No evidence of mutagen potential (external MSDS; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Specific target organ toxicity – single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity – repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

No aspiration toxicity classification.

11.2 Further information

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

Gambusia affinis LC₅₀: 80 mg/l /96 h (IUCLID; potassium hydroxide, anhydrous)

Leuciscus idus LC₅₀: > 10 – 100 mg/l (DIN EN ISO 7346-2; Alcohols, C12-14, ethoxylated, sulfates, sodium salts)

Leuciscus idus NOEC: > 1 – 10 mg/l (external MSDS; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna: EC₅₀: > 10 – 100 mg/l (OECD 202; Alcohols, C12-14, ethoxylated, sulfates, sodium salts)

Daphnia magna: NOEC: > 0.1 – 1 mg/l (external MSDS; Alcohols, C12-14, ethoxylated, sulfates, sodium salts)

Toxicity to algae

Scenedesmus subspicatus EC₅₀: > 100 mg/l (OECD 201; Alcohols, C12-14, ethoxylated, sulfates, sodium salts)

Toxicity to bacteria

Activated sludge: Pseudomonas putida EC₀: > 100 mg/l (OECD 209; Alcohols, C12-14, ethoxylated, sulfates, sodium salts)

12.2 Persistence and degradability

Biodegradability

The surfactants contained in this preparation complies with the Biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Readily biodegradable (OECD 301; Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

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12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No bioaccumulation is to be expected (Alcohols, C12-14, ethoxylated, sulfates, sodium salts).

12.5 Results of PBT and vPvB assessment

PBT / vPvB assessment not available as chemical safety assessment not required / not conducted.

12.6 Other adverse effects

Additional ecological information:

Biological effects: Harmful effect due to pH-shift. Caustic even in diluted form.

Do not allow to enter waters, waste water, or soil!

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:

Chemicals must be disposed of in compliance with the respective national regulations.

Code of the waste

Name according to directive 2000/532/EC:

200129*

detergents containing dangerous substances.

070601*

aqueous washing liquids and mother liquors.

Packaging:

Product packaging must be disposed of in compliance with the country-specific regulations or must be to a packaging return system.

SECTION 14: Transport information

Road and rail, ADR/RID

UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II (E)

Environmentally hazardous: No.

Inland waterway, ADN

Not tested.

Sea, IMDG-Code

UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II

EmS: F-A, S-B

Marine pollutant: No.

Air, IATA-DGR

UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II

Environmentally hazardous: No.

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

EU regulations

Ingredients according to Regulation (EC) on detergents No. 648/2004:
Anionic surfactants: Less than 5 %

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Reason for alteration:

SECTION 3: Composition / information on ingredients
SECTION 6: Accidental release measures
SECTION 8: Exposure controls/personal protection
Exposure controls
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 13: Disposal considerations

Full text of hazard statements referred to under sections 2 and 3:

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.