

# Safety data sheet

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

Date of issue: 05.04.2012      Supersedes edition of: ---

## **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**

Basic cleaner

### **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**

Poison Control Center Nuremberg, Tel. + 49 911 398 2451

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

C      Corrosive                      R 35

### **2.2 Label elements**

*Labelling (67/548/EEC or 1999/45/EC)*

Symbol:      C      Corrosive.

R-phrases:      35  
Causes severe burns.

S-phrases:      26-36/37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains: Potassium hydroxide.

### **2.3 Other hazards**

Nor known.

## **SECTION 3: Composition / information on ingredients**

Solution in water.

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**Hazardous components**

Name according to EC-Directives:

CAS-No.	EC-No.	EC-Index-No.	Labelling according to EC-Directives	Content
Potassium hydroxide 1310-58-3	215-181-3	019-002-00-8	C R 22-35	>5 %
REACH Registration Number: 01-2119487136-33-0000				
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68585-34-2	500-223-8		Xi R 36/38	10 – <20 %
REACH Registration Number: 01-2119488639-16-0004				

Full text of R-Phrases: see under section 16.

**SECTION 4: First aid measures****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. Swap with polyethylene glycol 400. 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, pain, collapse.

Risk of corneal clouding.

Drying-out effect resulting in rough and chapped skin.

**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.

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### 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. Ensure supply of fresh air in enclosed rooms.

### 6.2 Environmental precautions

Do not allow to enter 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 prevention of fire and explosion*

Not required.

#### *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.

### 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

Contains no substances with occupational limit values.

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## 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:**

Tightly fitting safety goggles (EN 166).

### **Hand protection:**

Glove material: Nitrile rubber.

Details on the penetration time have to be asked by the manufacturer.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374.

### **Respiratory protection:**

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

### *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
	upper
Density (23 °C)	~ 1.1 g/cm <sup>3</sup>
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).

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### 10.3 Possibility of hazardous reactions

Strong oxidizing agents, light metals, aluminium, strong acids.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Aluminium, light metals, various plastics.

### 10.6 Hazardous decomposition products

See section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD<sub>50</sub> rat: 1064 mg/kg (calculated; potassium hydroxide)

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

LD<sub>50</sub> rat: 4100 mg/kg (external MSDS; Fatty ether sulphate)

#### *Acute dermal toxicity*

LD<sub>50</sub> rat: >2000 mg/kg (external MSDS; Fatty ether sulphate)

#### *Acute inhalation toxicity*

Symptoms: Burns of mucous membranes, inhalation may lead to the formation of oedemas in the respiratory tract. Possible damages: Damage of 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: No irritation (external MSDS; Fatty ether sulphate).

#### *Eye irritation*

Rabbit: Causes burns. Mixture causes serious eye damage (IUCLID; potassium hydroxide, anhydrous).

Risk of corneal clouding. Risk of blindness! Necrosis.

Rabbit: Eye irritation. (external MSDS; Fatty ether sulphate).

#### *Sensitisation*

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

Sensitisation test: Guinea pig: Negative (external MSDS; Fatty ether sulphate).

#### *Genotoxicity in vitro*

Ames test: Escherichia coli: Negative (IUCLID; potassium hydroxide, anhydrous).

#### *Specific target organ toxicity – single exposure*

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

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***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 LC<sub>50</sub>: 80 mg/l /96 h (IUCLID; potassium hydroxide, anhydrous)  
LC<sub>50</sub>: 7.1 mg/l /96 h (external MSDS; Fatty ether sulphate)

***Toxicity to daphnia an other aquatic invertebrates***

Daphnia magna: EC<sub>50</sub>: 7.2 mg/l /48 h (external MSDS; Fatty ether sulphate).

***Toxicity to algea***

EC<sub>50</sub>: 7.5 mg/l / 96h (external MSDS; Fatty ether sulphate)

**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.

Biodegradation: 100 % / 28 d (external MSDS; Fatty ether sulphate)

Readily biodegradable (Fatty ether sulphate)

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**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!

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**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.

Code of the waste	Name according to directive 2000/532/EC:
200139	plastics.

**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.

**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: 5 % or over but less than 15 %

**15.2 Chemical safety assessment**

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

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**SECTION 16: Other information**

*Text of any R phrases referred to under section 2 and 3:*

22 Harmful if swallowed.  
35 Causes severe burns.  
36/38 Irritating to eyes and skin.

*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.*