

# Safety data sheet

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

Date of issue: 22.04.2020 Supersedes edition of: 02.11.2018

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

### 1.1 Product identifier

Product name: Spülmat GTR

### 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 Center, 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician.

Contains: Potassium hydroxide, potassium silicate.

### 2.3 Other hazards

Nor known.

## SECTION 3: Composition / information on ingredients

Solution in water.

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

<i>Chemical name</i>				<i>Content</i>
<i>CAS-No.</i>	<i>EC-No.</i>	<i>EC-Index-No.</i>	<i>Labelling according to EC-Regulation</i>	
Potassium hydroxide				< 5 %
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				
Potassium silicate				< 10 %
1312-76-1	215-199-1		Eye Dam. 1, H318 Skin Irrit. 2, H315	
REACH Registration Number: 01-2119456888-17				

Full text of hazard statements: See under section 16.

### 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

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### 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.

### 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.

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## 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/m <sup>3</sup>

### 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

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:	colourless

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Odour:	characteristic
pH value	> 12
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 <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).

### 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 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, acids, materials containing silicates.

### 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: 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,

LD<sub>50</sub> rat: > 2000 mg/kg (external MSDS; Potassium silicate)

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**Acute dermal toxicity**

LD<sub>50</sub> 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.

Skin irritation (external MSDS; Potassium silicate).

**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.

Eye irritation. Risk of serious damage to eyes. (external MSDS; Potassium silicate).

**Sensitisation**

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

**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.

**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)

Leuciscus idus LC<sub>50</sub>: > 146 mg/l /48 h (external MSDS; Potassium silicate)

**Toxicity to daphnia and other aquatic invertebrates**

Daphnia magna: EC<sub>50</sub>: > 146 mg/l /48 h (external MSDS; Potassium silicate).

**12.2 Persistence and degradability****Biodegradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

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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**

No information available.

### **15.2 Chemical safety assessment**

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

## **SECTION 16: Other information**

### *Reason for alteration*

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

SECTION 2: Hazards identification

SECTION 8: Exposure controls/personal protection

Exposure controls

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.

*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.*