

# Safety data sheet

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

Date of issue: 27.04.2020 Supersedes edition of: 08.06.2017

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

### 1.1 Product identifier

Product name: Kraftreiniger

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

Identified uses: 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

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)*

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:*

H318 Causes serious 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 lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Contains: Alcohols, C10-12, ethoxylated propoxylated.

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### 2.3 Other hazards

Not known.

## SECTION 3: Composition / information on ingredients

Solution in water.

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

Chemical name	CAS-No.	EC-No.	EC-Index-No.	Classification	Content
Alcohols, C10-12, ethoxylated propoxylated (*)					< 10 %
68154-97-2				Skin Irrit. 2, H315 Eye Dam. 1, H318	
2-(2-Butoxyethoxy)ethanol					< 10 %
112-34-5	203-961-6	603-096-00-8		Eye Irrit. 2, H319	
REACH Registration Number: 01-2119475104-44					
Tetrapotassium pyrophosphate					< 10 %
7320-34-5	230-785-7			Eye Irrit. 2, H319	
REACH Registration Number: 01-2119457610-43					
Sodium p-cumenesulphonate					< 10 %
15763-76-5	239-854-6			Eye Irrit. 2, H319	
REACH Registration Number: 01-2119489411-37					

Full text of hazard statements: See under section 16.

(\*) A registration number is not available for this substance as the substance or its use is exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

After inhalation: Fresh air.

After skin contact: Wash off with plenty of water. Immediately remove contaminated clothing.

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

After swallowing: Make victim drink plenty of water (two glasses at most), avoid vomiting. call in physician.

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

Irritant effects, shortness of breath, dizziness, diarrhoea, nausea, CNS disorders.

### 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.

**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.

*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***2-(2-Butoxyethoxy)ethanol*

## ECLV

Name	2-(2-Butoxyethoxy)ethanol
Limit value 8 hours	10 ppm 67.5 mg/m <sup>3</sup>

Short term (< 15 min.)	15 ppm 101.2 mg/m <sup>3</sup>
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## EH40 WEL

Name	2-(2-Butoxyethoxy)ethanol
Short term exposure limit (STEL)	15 ppm 101.2 mg/m <sup>3</sup>

Time weighted average (TWA)	10 ppm 67.5 mg/m <sup>3</sup>
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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:**

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).

*Hygiene measures*

Change contaminated clothing. Apply skin- protective barrier cream. Wash hands after working

with substance.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	pale yellow
Odour:	perfumed
pH value	9 – 10
Melting point	not specified
Boiling point	not specified
Ignition temperature	not applicable
Flash point	not applicable
Explosion limits	lower upper
	not applicable
Density (23 °C)	~ 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

Forms explosive mixtures with air on intense heating.

### 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: Oxidizing agents, Aluminium.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

Aluminium, light metals. Oxidizing agents, alkalis, strong acids.

### 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: > 2000 mg/kg (OECD 401; Alcohols, C10-12, ethoxylated propoxylated)

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LD<sub>50</sub> rat: 5660 mg/kg (RTECS; 2-(2-Butoxyethoxy)ethanol)  
Symptoms: Nausea, diarrhoea, shortness of breath.  
LD<sub>50</sub> rat: > 2000 mg/kg (external MSDS; Tetrapotassium pyrophosphate)  
LD<sub>50</sub> rat: > 2000 mg/kg (OECD 401; Sodium p-cumenesulphonate)

#### *Acute dermal toxicity*

LD<sub>50</sub> rabbit: 2764 mg/kg (ECHA; 2-(2-Butoxyethoxy)ethanol)  
LD<sub>50</sub> rat: > 2000 mg/kg (external MSDS; Sodium p-cumenesulphonate)

#### *Acute inhalation toxicity*

Symptoms: Possible damages: Mucosal irritations (external MSDS; 2-(2-Butoxyethoxy)ethanol).  
LC<sub>50</sub> rat: > 5 mg/kg /232 min (external MSDS; Sodium p-cumenesulphonate)

#### *Skin irritation*

Rabbit: Irritation (OECD 404; Alcohols, C10-12, ethoxylated propoxylated).  
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product (external MSDS; 2-(2-Butoxyethoxy)ethanol).  
No irritation (external MSDS; Tetrapotassium pyrophosphate).  
Rabbit: No irritation (OECD 404; Sodium p-cumenesulphonate).

#### *Eye irritation*

Rabbit: Causes serious eye irritation (OECD 405; Alcohols, C10-12, ethoxylated propoxylated).  
Causes serious eye damage.  
Rabbit: Eye irritation. Causes serious eye irritation (RTECS; 2-(2-Butoxyethoxy)ethanol).  
Eye irritation. (external MSDS; Tetrapotassium pyrophosphate).  
Rabbit: Eye irritation. Causes serious eye irritation (OECD 405; Sodium p-cumenesulphonate).

#### *Sensitisation*

Sensitisation test (Buehler-Test): Negative (OECD 406; Sodium p-cumenesulphonate).

#### *Genotoxicity in vitro*

Ames test: Salmonella typhimurium: Negative (OECD 471; Alcohols, C10-12, ethoxylated propoxylated).  
Ames test: Salmonella typhimurium: Negative (National Toxicology Program; 2-(2-Butoxyethoxy)ethanol).  
Ames test: Bacteria: Negative (OECD 471; Sodium p-cumenesulphonate).  
Mutagenicity (mammal cell test): Micronucleus: Negative (92/69/EC, B.12; Sodium p-cumenesulphonate).

#### *Carcinogenicity*

Did not show carcinogenic effects in animal experiments (OECD 453; Sodium p-cumenesulphonate).

#### *Reproductive toxicity*

No impairment of reproductive performance in animal experiments (external MSDS; Sodium p-cumenesulphonate).

#### *Teratogenicity*

Did not show teratogenic effects in animal experiments (external MSDS; Sodium p-cumenesulphonate).

#### *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**

Chronic intoxication: Systemic effects: CNS disorders, dizziness. Damage to: Liver, kidney.

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*

Lepomis macrochirus LC<sub>50</sub>: 1300 mg/l /48 h (OECD 203; ECHA; 2-(2-Butoxyethoxy)ethanol)  
Oncorhynchus mykiss LC<sub>50</sub>: > 100 mg/l /96 h (external MSDS; Sodium p-cumenesulphonate)

#### *Toxicity to daphnia and other aquatic invertebrates*

Daphnia magna: EC<sub>50</sub>: > 1 – 10 mg/l /48 h (OECD 202; Alcohols, C10-12, ethoxylated propoxylated)

Daphnia magna: EC<sub>50</sub>: > 100 mg/l /48 h (OECD 202; 2-(2-Butoxyethoxy)ethanol)

Daphnia magna: EC<sub>50</sub>: > 100 mg/l /48 h (OECD 202, Sodium p-cumenesulphonate)

#### *Toxicity to algae*

Desmodesmus subspicatus: EC<sub>10</sub>: > 1 – 10 mg/l /72 h (OECD 201; Alcohols, C10-12, ethoxylated propoxylated)

Desmodesmus subspicatus: EC<sub>50</sub>: > 1 – 10 mg/l /72 h (OECD 201; Alcohols, C10-12, ethoxylated propoxylated)

Pseudokirchneriella subspicatus EC<sub>50</sub>: > 100 mg/l / 96 h (external MSDS; Sodium p-cumenesulphonate)

#### *Toxicity to bacteria*

Pseudomonas putida EC<sub>50</sub>: > 950 mg/l /17 h (ISO 10712; Alcohols, C10-12, ethoxylated propoxylated)

Activated sludge: EC<sub>10</sub>: > 1000 mg/l /180 min (OECD 209; Sodium p-cumenesulphonate)

### **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: > 60 % /28 d (OECD 301B; Alcohols, C10-12, ethoxylated propoxylated)

Readily biodegradable (Alcohols, C10-12, ethoxylated propoxylated)

Biodegradation: 85 % /28 d (OECD 301 C; 2-(2-Butoxyethoxy)ethanol)

Readily biodegradable (2-(2-Butoxyethoxy)ethanol)

Biodegradation: > 60 % /28 d (OECD 301B; Sodium p-cumenesulphonate)

Readily biodegradable (Sodium p-cumenesulphonate)

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*Ratio COD / ThBOD*

96 % (ECHA; 2-(2-Butoxyethoxy)ethanol)

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol / water: log  $P_{ow}$ : 0.56 (25 °C) (external MSDS; 2-(2-Butoxyethoxy)ethanol).

No bioaccumulation is to be expected (2-(2-Butoxyethoxy)ethanol).

No bioaccumulation is to be expected (Sodium p-cumenesulphonate).

**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:*

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**

Not classified as dangerous in the meaning of transport regulations.

**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:

Non-ionic surfactants: Less than 5 %

Phosphates: Less than 5 %

Benzisothiazolon, Methylisothiazolon.

Perfumes. Linalool, Amyl Cinnamal.



## 15.2 Chemical safety assessment

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

## SECTION 16: Other information

### *Reason for alteration:*

SECTION 2: Hazards identification

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

SECTION 16: Other information

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

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

*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.*