

Safety data sheet

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

Date of issue: 25.02.2020 Supersedes edition of: 02.11.2018

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

1.1 Product identifier

Product name: Industriereiniger SA

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

Identified uses: 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

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:

P260 Do not breathe vapours/spray.

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

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skin with water or 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, sodium metasilicate, potassium silicate.

2.3 Other hazards

Not 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.	Classification	
Potassium hydroxide				> 5 – < 25 %
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				
Sodium metasilicate				< 5 %
6834-92-0	229-912-9	014-010-00-8	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335	
REACH Registration Number: 01-2119449811-37				
Potassium silicate				< 5 %
1312-76-1	215-199-1		Eye Dam. 1, H318 Skin Irrit. 2, H315	
REACH Registration Number: 01-2119456888-17				
2-(2-Butoxyethoxy)ethanol				< 20 %
112-34-5	203-961-6	603-096-00-8	Eye Irrit. 2, H319	
REACH Registration Number: 01-2119475104-44				
Tetrapotassium pyrophosphate				< 20 %
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				
Alcohols, C10-12, ethoxylated propoxylated (*)				< 10 %
68154-97-2			Eye Irrit. 2, H319	

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. 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!

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.

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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.

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

ECTLV

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

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

Name	2-(2-Butoxyethoxy)ethanol
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Short term exposure limit (STEL) 15 ppm
 101.2 mg/m³

Time weighted average (TWA) 10 ppm
 67.5 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: 0.381 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 Professional.

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
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)	~ 1.2 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 compounds, halogens, alkaline earth metals, Ammonium compounds, light metals, metals, base metals.

Gives off hydrogen by reaction with metals.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Animal / vegetable tissues, glass, various plastics, metals, oxidizing agents, strong acids, strong alkalis, glass and materials containing silicates, aluminium, light 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: 1280 mg/kg (external MSDS; Sodium metasilicate)

Symptoms: If ingested, severe burns of the mouth, as well as a danger of perforation of the oesophagus and the stomach.

LD₅₀ rat: > 2000 mg/kg (external MSDS; Potassium silicate)

LD₅₀ rat: 5660 mg/kg (RTECS; 2-(2-Butoxyethoxy)ethanol)

Symptoms: Nausea, diarrhoea, shortness of breath.

LD₅₀ rat: > 2000 mg/kg (external MSDS; Tetrapotassium pyrophosphate)

LD₅₀ rat: > 2000 mg/kg (OECD 404; Sodium p-cumenesulphonate)

LD₅₀ rat: > 2000 mg/kg (OECD 401; Alcohols, C10-12, ethoxylated propoxylated)

Acute dermal toxicity

LD₅₀ rabbit: 2764 mg/kg (ECHA; 2-(2-Butoxyethoxy)ethanol)

LD₅₀ rat: > 2000 mg/kg (external MSDS; Sodium p-cumenesulphonate)

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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.
Symptoms: Possible damages: Mucosal irritations (external MSDS; 2-(2-Butoxyethoxy)ethanol).
LC₅₀ rat: > 5 mg/l (external MSDS; Reaction mass of (2S)-Alanine, N,N-bis(carboxymethyl)-, trisodiumsalt and (2R)-Alanine, N,N-bis(carboxymethyl)-, trisodiumsalt)
LC₅₀ rat: > 5 mg/kg 232 min (external MSDS; Sodium p-cumenesulphonate)

Skin irritation

Rabbit: Causes burns (IUCLID; potassium hydroxide, anhydrous).
Drying-out effect resulting in rough and chapped skin. Necrosis.
Mixture causes severe burns.
Causes burns (external MSDS; Sodium metasilicate).
Skin irritation (external MSDS; Potassium silicate).
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).
Rabbit: No irritation (OECD 404; Alcohols, C10-12, ethoxylated propoxylated).

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.
Causes serious burns. (external MSDS; Sodium metasilicate).
Eye irritation. Risk of serious damage to eyes. (external MSDS; Potassium silicate).
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).
Rabbit: Eye irritation (OECD 405; Alcohols, C10-12, ethoxylated propoxylated).

Sensitisation

Sensitisation test: Guinea pig: Negative (IUCLID; potassium hydroxide, anhydrous).
No sensitising effect known (external MSDS; Sodium metasilicate).
Sensitisation test (Buehler-Test): Negative (OECD 406; Sodium p-cumenesulphonate).

Genotoxicity in vitro

Ames test: Escherichia coli: Negative (IUCLID; potassium hydroxide, anhydrous).
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).
Ames test: Salmonella typhimurium: Negative (OECD 471; Alcohols, C10-12, ethoxylated propoxylated).

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).

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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.

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

Gambusia affinis LC₅₀: 80 mg/l /96 h (IUCLID; potassium hydroxide, anhydrous)
Leuciscus idus LC₅₀: > 146 mg/l /48 h (external MSDS; Potassium silicate)
Lepomis macrochirus LC₅₀: 1300 mg/l /48 h (OECD 203; ECHA; 2-(2-Butoxyethoxy)ethanol)
Oncorhynchus mykiss LC₅₀: > 100 mg/l /96 h (external MSDS; Sodium p-cumenesulphonate)
Daphnia magna: EC₅₀: > 1 – 10 mg/l /48 h (OECD 202; Alcohols, C10-12, ethoxylated propoxylated)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna: EC₅₀: > 146 mg/l /48 h (external MSDS; Potassium silicate).
Daphnia magna: EC₅₀: > 100 mg/l /48 h (OECD 202; 2-(2-Butoxyethoxy)ethanol)
Daphnia magna: EC₅₀: > 100 mg/l /48 h (OECD 202, Sodium p-cumenesulphonate)

Toxicity to algae

Pseudokirchneriella subspicatus EC₅₀: > 100 mg/l / 96 h (external MSDS; Sodium p-cumenesulphonate)
Desmodesmus subspicatus: EC₁₀: > 1 – 10 mg/l / 72 h (OECD 201; Alcohols, C10-12, ethoxylated propoxylated)

Toxicity to bacteria

Activated sludge: EC₁₀: > 1000 mg/l / 180 min (OECD 209; Sodium p-cumenesulphonate)
Pseudomonas putida EC₅₀: > 10000 mg/l /17 h (ISO 10712; Alcohols, C10-12, ethoxylated propoxylated)

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.

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

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:**

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

200129*

070601*

Name according to directive 2000/532/EC:

detergents containing dangerous substances.

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 1719 CAUSTIC ALKALI LIQUID, N.O.S., (Potassium hydroxide, disodium trioxosilicate), 8, II (E)

Environmentally hazardous: No.

Inland waterway, ADN
 Not tested.

Sea, IMDG-Code
 UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., (Potassium hydroxide, disodium trioxosilicate), 8, II
 EmS: F-A, S-B
 Marine pollutant: No.

Air, IATA-DGR
 UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., (Potassium hydroxide, disodium trioxosilicate), 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:
 Non-ionic surfactants: Less than 5 %
 Phosphates: 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 1: Identification of the substance / mixture and of the company / undertaking
 SECTION 3: Composition / information on ingredients
 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.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

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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.