

Safety data sheet

According to Regulation (EC) No. 1907/2006 (REACH)
Date of issue: 17.12.2020 Supersedes edition of: ---

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

1.1 Product identifier

Product name: Restroclean

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)

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:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

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 skin with water/shower.

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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: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts, Isotridecanol, ethoxylated, Sodium metasilicate.

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. EC-No. EC-Index-No. Labelling according to EC-Regulation</i>	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 68411-30-3 270-115-0 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	< 20 %
REACH Registration Number: 01-2119489428-22	
2-(2-Butoxyethoxy)ethanol 112-34-5 203-961-6 603-096-00-8 Eye Irrit. 2, H319	< 10 %
REACH Registration Number: 01-2119475104-44	
Isotridecanol, ethoxylated 69011-36-5 NLP 500-241-6 Eye Dam. 1, H318 Acute Tox. 4, H302	< 5 %
REACH Registration Number: 02-2119552461-55	
Sodium metasilicate 6834-92-0 229-912-9 014-010-00-8 Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335	< 5 %
REACH Registration Number: 01-2119449811-37	

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

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.

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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
Short term exposure limit (STEL)	15 ppm 101.2 mg/m ³

Time weighted average (TWA)	10 ppm 67.5 mg/m ³
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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.

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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 and face 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:	characteristic
pH value	12 – 13
Melting point	not specified
Boiling point	not specified
Ignition temperature	not applicable
Flash point	not applicable
Explosion limits	lower
	upper
Density (23 °C)	~ 1.0 g/cm ³
Viscosity, dynamic	not specified
Solubility in water	soluble

9.2 Other information

None.

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

Strong exothermic reaction with acids.

Metal corrosion: Is corrosive to aluminium.

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

No information available.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Aluminium, light metals. Corrosive substances, halogens, bases, acids, reactive chemicals.

10.6 Hazardous decomposition products

See section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD₅₀ rat: 1470 mg/kg (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

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

Symptoms: Nausea, diarrhoea, shortness of breath.

LD₅₀ rat: 500 – 2000 mg/kg (OECD 423; Isotridecanol, ethoxylated)

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.

Acute dermal toxicity

LD₅₀ rat: > 2000 mg/kg (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

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

Acute inhalation toxicity

Symptoms: Possible damages: Mucosal irritations (external MSDS; 2-(2-Butoxyethoxy)ethanol).

Skin irritation

Corrosive (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

Causes severe skin burns.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product (external MSDS; 2-(2-Butoxyethoxy)ethanol).

Rabbit: No irritation (OECD 404; Isotridecanol, ethoxylated).

Causes burns (external MSDS; Sodium metasilicate).

Eye irritation

Corrosive (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.).

Causes serious eye damage.

Rabbit: Eye irritation. Causes serious eye irritation (RTECS; 2-(2-Butoxyethoxy)ethanol).

Rabbit: Causes serious eye damage (external MSDS; Isotridecanol, ethoxylated).

Causes serious burns. (external MSDS; Sodium metasilicate).

Sensitisation

No sensitising effect known (external MSDS; Sodium metasilicate).

Genotoxicity in vitro

Ames test: Salmonella typhimurium: Negative (National Toxicology Program; 2-(2-Butoxyethoxy)ethanol).

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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

Lepomis macrochirus LC₅₀: 1 – 10 mg/l /96 h (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

Lepomis macrochirus LC₅₀: 1300 mg/l /48 h (OECD 203; ECHA; 2-(2-Butoxyethoxy)ethanol)

Leuciscus idus LC₅₀: 1 – 10 mg/l /96 h (external MSDS; Isotridecanol, ethoxylated)

Toxicity to daphnia and other aquatic invertebrates

Daphnia sp. EC₅₀: 1 – 10 mg/l /48 h (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

Daphnia magna: EC₅₀: > 100 mg/l /48 h (OECD 202; 2-(2-Butoxyethoxy)ethanol)

Aquatic invertebrates: EC₅₀: 1 – 10 mg/l /48 h (external MSDS; Isotridecanol, ethoxylated)

Toxicity to algae

EC₅₀: 1 – 10 mg/l (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

EC₅₀: 1 – 10 mg/l /72 h (external MSDS; Isotridecanol, ethoxylated)

Toxicity to bacteria

Activated sludge: EC₁₀: > 10000 mg/l /17 h (DIN 38412 (8); Isotridecanol, ethoxylated)

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; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

Readily biodegradable (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

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

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

Biodegradation: > 60 % / 28 d (OECD 301B; Isotridecanol, ethoxylated)

Readily biodegradable (Isotridecanol, ethoxylated)

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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).

Bioconcentration factor: > 100 (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.).

No bioaccumulation is to be expected (external MSDS; Isotridecanol, ethoxylated).

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*Further information on ecology*

COD: 2.1 g/g (external MSDS; Isotridecanol, ethoxylated).

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 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Sodium metasilicate), 8, II (E)

Environmentally hazardous: No.

Inland waterway, ADN

Not tested.

Sea, IMDG-Code

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Sodium metasilicate), 8, II

EmS: F-A, S-B

Marine pollutant: No.

Air, IATA-DGR

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Sodium metasilicate), 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 %

Non-ionic surfactants: Less than 5 %

15.2 Chemical safety assessment

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

SECTION 16: Other information

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.

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.