

SAFETY DATA SHEET

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

Revision date: 7 Nov 2022

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Version: 2



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

1.1. Product identifier

Trade name/designation:

Restroclean

Article No.:

242

UFI:

PGFM-QCSP-SVHG-4JJK

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

Use of the substance/mixture:

Cleaning agent

Nur für den industriellen und gewerblichen Gebrauch.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Otto Oehme GmbH

FEA

Industriestr. 20

90584 Allersberg

Germany

Telephone: 09176/98050

Telefax: 09176/980555

E-mail: Info@Oehme-Lorito.de

Website: www.Oehme-Lorito.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS05

Corrosion

Signal word: Danger

Hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.

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Supplemental hazard information: none

Precautionary statements Prevention

P280 Wear protective gloves/protective clothing and eye/face protection.

Precautionary statements Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse 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.





2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68411-30-3 EC No.: 270-115-0	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Irrit. 2 (H315)  Danger	< 20 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319)  Warning	< 10 weight-%
CAS No.: 10213-79-3 EC No.: 229-912-9	Natriummetasilikat-Pentahydrat Eye Dam. 1 (H318), Met. Corr. 1 (H290), STOT SE 3 (H335), Skin Corr. 1B (H314)  Danger	1 - ≤ 5 weight-%
CAS No.: 69011-36-5	Isotridecanol,ethoxylated Acute Tox. 4 (H302), Eye Dam. 1 (H318)  Danger	1 - < 5 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

If skin irritation or rash occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Serious eye damage/eye irritation, Atemnot, Schmerzen, Kollaps, Erblindungsgefahr

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Adjust to the environment

Unsuitable extinguishing media:

There are no restrictions on extinguishing agents for this mixture

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire hazardous combustion gases or vapors possible

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Special danger of slipping by leaking/spilling product.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid contact with skin, eyes and clothes. Open windows to ensure natural ventilation. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special fire protection measures are necessary.

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Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 8B - Non-combustible corrosive substances

7.3. Specific end use(s)

Industrial sector specific solutions:

Stripper, corrosive, solvent-based

GISCODE:

GG80

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Other protection measures:

Protective clothing.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

Odour: characteristic

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Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	12 - 13		
Melting point	not determined		
Freezing point	not determined		
Initial boiling point and boiling range	not determined		
Decomposition temperature	not determined		
Flash point	not determined		
Evaporation rate	not determined		
Auto-ignition temperature	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	not determined		
Vapour density	not determined		
Density	1 g/cm ³	20 °C	
Relative density	not determined		
Bulk density	not determined		
Water solubility	miscible		
Partition coefficient: n-octanol/water	not determined		
Dynamic viscosity	not determined		
Kinematic viscosity	not determined		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Exothermic reaction with:Acids

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Violent reaction with:Acid, concentrated White/yellow phosphor Light metal

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

10.5. Incompatible materials

Acid, Glass, Aluminium , Light metal,Oxidising agent, strong

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0
LD ₅₀ oral: 1,080 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
LD ₅₀ dermal: >2,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal Toxicity)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LD ₅₀ oral: 2,410 mg/kg (Mouse)
LD ₅₀ dermal: 2,764 mg/kg (Rabbit)
Natriummetasilikat-Pentahydrat CAS No.: 10213-79-3 EC No.: 229-912-9
LD ₅₀ dermal: >5,000 mg/kg (Ratte)

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Isotridecanol,ethoxylated CAS No.: 69011-36-5
LD₅₀ oral: 300 - 2,000 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (Ratte)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

No data available

11.2. Information on other hazards

No data available

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SECTION 12: Ecological information

12.1. Toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0
LC₅₀: 2.88 mg/L 2 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC₅₀: 2.88 mg/L 3 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC₅₀: 1.67 mg/L 4 d (fish, Lepomis macrochirus) US EPA, 1975. Reliability, deviations and validity evaluated against the criteria of USEPA 850.1075, 1996.
LC₅₀: 3.94 mg/L 4 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
EC₅₀: 29 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) Payne AG, Hall RH, 1979, in Aquatic Toxicology, ASTM, STP 667, pp. 171-180; and US EPA, 1978, The Selenastrum capricornutum Printz algal assay. Deviations, reliability, and validity will be evaluated using the USEPA OPPTS 850.5400 (1996) guideline.
EC₅₀: 2.9 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 0.5 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) Payne AG, Hall RH, 1979, in Aquatic Toxicology, ASTM, STP 667, pp. 171-180; and US EPA, 1978, The Selenastrum capricornutum Printz algal assay. Deviations, reliability, and validity will be evaluated using the USEPA OPPTS 850.5400 (1996) guideline.
NOEC: ≥4 mg/L 28 d (Algae/water plant, Elodea canadensis)
NOEC: 1.18 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
LOEC: 1 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) Payne AG, Hall RH, 1979, in Aquatic Toxicology, ASTM, STP 667, pp. 171-180; and US EPA, 1978, The Selenastrum capricornutum Printz algal assay. Deviations, reliability, and validity will be evaluated using the USEPA OPPTS 850.5400 (1996) guideline.
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LC₅₀: 1,300 mg/L 4 d (Sonnenbarsch) OECD 203
EC₅₀: >100 mg/L 2 d (Daphnia magna)
ErC₅₀: 1,101 mg/L 3 d (Algae/water plant)
Natriummetasilikat-Pentahydrat CAS No.: 10213-79-3 EC No.: 229-912-9
LC₅₀: 210 mg/L 4 d (fish)
EC₅₀: 1,700 mg/L 2 d (Daphnia magna)
EC₅₀: 207 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
EC₅₀: 209 mg/L (Algae/water plant, Mikroorganismen)
Isotridecanol,ethoxylated CAS No.: 69011-36-5
LC₅₀: >1 - 10 mg/L 4 d (fish)
EC₅₀: >1 - 10 mg/L 2 d (crustaceans)
EC₅₀: >1 - 10 mg/L 3 d (Algae/water plant)
NOEC: >1 mg/L 21 d (crustaceans)
LC₅₀: >1 - 10 mg/L (fish, Daphnia magna)
LC₅₀: >1 - 10 mg/L (fish)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0
Log K_{OW}: 1.4
Bioconcentration factor (BCF): 98 Species: other: Cellular and subcellular fractions from Common carp (Cyprinus carpio) and Rainbow trout (Oncorhynchus mykiss)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Log K_{OW}: = 1

12.4. Mobility in soil

No data available

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12.5. Results of PBT and vPvB assessment

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0
Results of PBT and vPvB assessment: —
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Results of PBT and vPvB assessment: —
Natriummetasilikat-Pentahydrat CAS No.: 10213-79-3 EC No.: 229-912-9
Results of PBT and vPvB assessment: —
Isotridecanol,ethoxylated CAS No.: 69011-36-5
Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 06 01 *	aqueous washing liquids and mother liquors
20 01 29 *	Detergents containing hazardous substances

*: Evidence for disposal must be provided.

Waste code packaging





20 01 39	plastics
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Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1719	UN 1719	UN 1719	UN 1719
14.2. UN proper shipping name			
CAUSTIC ALKALI LIQUID, N.O.S. (Dinatriummetasilikat)	CAUSTIC ALKALI LIQUID, N.O.S. (Dinatriummetasilikat)	CAUSTIC ALKALI LIQUID, N.O.S. (Dinatriummetasilikat)	CAUSTIC ALKALI LIQUID, N.O.S. (Dinatriummetasilikat)
14.3. Transport hazard class(es)			
 8	 8	 8	 8
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 274 Limited quantity (LQ): 1 L	Special Provisions: 274 Limited quantity (LQ): 1 L	Special Provisions: 274 Limited quantity (LQ): 1 L	Special Provisions: A3 Limited quantity (LQ): Y840

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
Excepted Quantities (EQ): E2 Hazard identification number (Kemler No.): 80 Classification code: C5 Tunnel restriction code: (E)	Excepted Quantities (EQ): E2 Classification code: C5	Excepted Quantities (EQ): E2 EmS-No.: F-A, S-B	Excepted Quantities (EQ): E2

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Authorisations:

EU legislation

Labelling for contents according to regulation (EC) No. 648/2004

anionic surfactants 5% and above but less than 15%

non-ionic surfactants less than 5%

National regulations

Hazardous Substances Ordinance (GefStoffV)

Minimum protective measures according to TRGS 500

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Regeln (DGUV-Regeln)

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

Substance name	Type	source of supply
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0	Classification of the substance or mixture; LD ₅₀ oral; LD ₅₀ dermal; LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	

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16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
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.

16.6. Training advice

No data available

16.7. Additional information

The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.

It is the responsibility of the recipient of our product to observe existing laws and regulations.