

Safety data sheet

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

Date of issue: 15.04.2020 Supersedes edition of: 27.02.2017

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

1.1 Product identifier

Product name: Lorinet

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

Identified uses: Sanitary 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 Irrit. 2, H319

Full text of hazard statements: See under section 16.

2.2 Label elements

Labelling (Regulation (EC) No. 1272/2008)

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Not known.

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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>Classification according to EC-Regulation</i>	
Isotridecanol, ethoxylated				< 5%
69011-36-5	500-241-6		Eye Dam. 1, H318 Acute Tox. 4, H302	
REACH Registration Number: 02-2119552461-55				
Citric acid monohydrate				< 10%
5949-29-1	201-069-1		Eye Irrit. 2, H319	
REACH Registration Number: 01-2119457026-42				

Full text of hazard statements: See under section 16.

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. Remove contaminated clothing. Consult a physician if skin irritations occur.

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, pain, bloody vomiting.

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.

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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.

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

Contains no substances with occupational exposure limit values.

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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 and face after working with substance.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	red
Odour:	perfumed
pH value	~ 2.1
Melting point	not specified
Boiling point	not specified
Ignition temperature	not applicable
Flash point	not applicable
Explosion limits	lower
	upper
Density (20 °C)	1.0 g/cm ³
Solubility in water	miscible

9.2 Other information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3.

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10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Violent reactions possible with: Metals, oxidizing agents, bases, reducing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Corrosive substances, halogenes, bases, acids, reactive chemicals, metals.

10.6 Hazardous decomposition products

See section 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects***Acute oral toxicity*

LD₅₀ rat: > 300 – 2000 mg/kg (OECD 423; Isotridecanol, ethoxylated)

LD₅₀ rat: 11700 mg/kg (OECD 401; Citric acid, anhydrous)

Symptoms: In high doses: Irritation of mucous membranes, pain, bloody vomiting.

Acute dermal toxicity

LD₅₀ rabbit: > 2000 mg/kg (OECD 402; Isotridecanol, ethoxylated)

LD₅₀ rat: > 2000 mg/kg (OECD 402; Citric acid, anhydrous)

Skin Acute inhalation toxicity

Symptoms: Irritant effects on respiratory tract.

Skin irritation

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

Rabbit: No irritation (OECD 404; Citric acid, anhydrous).

Eye irritation

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

Rabbit: Strong irritations (OECD 405; Citric acid, anhydrous).

Causes serious eye irritations.

Genotoxicity in vitro

Ames test: Negative (external MSDS; Citric acid, anhydrous).

Reproductive toxicity

No impairment of reproductive performance in animal experiments (external MSDS; Citric acid, monohydrate).

Teratogenicity

Did not show teratogenic effects in animal experiments (external MSDS; Citric acid, monohydrate).

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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

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

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

Leuciscus idus LC₅₀: 440 – 760 mg/l /96 h (IUCLID; Citric acid, anhydrous)

Toxicity to daphnia and other aquatic invertebrates

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

Entosiphon sulcatum: EC₅: 485 mg/l /72 h (maximum permissible toxic concentration; external MSDS; Citric acid, anhydrous)

Daphnia magna: EC₅₀: 120 mg/l /72h (IUCLID; Citric acid, anhydrous)

Toxicity to algae

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

Microcystis aeruginosa: IC₅: 80 mg/l /8 d (maximum permissible toxic concentration; external MSDS; Citric acid, anhydrous)

Toxicity to bacteria

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

Pseudomonas putida EC₅: > 10000 mg/l /16 h (external MSDS; Citric acid, anhydrous)

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; Isotridecanol, ethoxylated)

Readily biodegradable (Isotridecanol, ethoxylated)

Biodegradation: 98 % / 2 d (OECD 302B; Citric acid, anhydrous)

Readily biodegradable (Citric acid, anhydrous)

Biochemical oxygen demand (BOD)

481 mg/g /5 d (external MSDS; Citric acid, monohydrate)

Chemical oxygen demand (COD)

685 mg/g (external MSDS; Citric acid, monohydrate)

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Theoretical oxygen demand (ThOD)

686 mg/g (external MSDS; Citric acid, monohydrate)

12.3 Bioaccumulative potential

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

Partition coefficient: n-octanol / water: log P_{ow} : -1.72 (IUCLID; Citric acid, monohydrate).

No bioaccumulation is to be expected (Citric acid, monohydrate).

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

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

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 %

Perfumes. Limonene, Alpha-Isomethyl Ionone.

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15.2 Chemical safety assessment

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

SECTION 16: Other information

Reason for alteration:

SECTION 6: Accidental release measures

SECTION 8: Exposure controls/personal protection

Exposure controls

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 13: Disposal considerations

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

H302 Harmful if swallowed.

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.