

Safety data sheet

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

Date of issue: 27.02.2012 Supersedes edition of: 31.08.2011

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

1.1 Product identifier

Product name: Lino Stripper

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

Basic 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

Poison Control Center Nuremberg, Tel. + 49 911 398 2451

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Xi Irritant R 36

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Symbol: Xi Irritant

R-phrases: 36

Irritating to skin.

S-phrases: 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3 Other hazards

May cause allergic reactions.

SECTION 3: Composition / information on ingredients

Solution in water.

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Hazardous components*Name according to EC-Directives:*

CAS-No.	EC-No.	EC-Index-No.	Labelling according to EC-Directives	Content
2-(2-Butoxyethoxy)ethanol 112-34-5	203-961-6	603-096-00-8	Xi R 36	<20 %
REACH Registration Number: 01-2119475104-44-0000				
Tetrakaliumpyrophosphate 7320-34-5	230-785-7		Xi R 36	<20 %
REACH Registration Number: 01-2119489369-18-0000				
1-Butoxy-2-propanol and isomeres 5131-66-8	225-878-4		Xi R 36/38	<20 %
REACH Registration Number: 01-2119475527-28-0001				
2-Propanol 67-63-0	200-661-7	603-117-00-0	F, Xi R 11-36-67	<20 %
REACH Registration Number: 01-2119457558-25-0000				
Non-ionic surfactants, mixture			Xi R 38-41	<5 %
2-tert-Butylcyclohexyl acetate 88-41-5	201-828-7		N R 51/53	<1 %
Isopentyl-2-hydroxybenzoate 2050-08-0	218-080-2		N R 50/53	<1 %
Octahydro-2,3,8,8-tetramethyl-2-naphtylethane 54464-57-2	200-661-7	603-117-00-0	Xi, N R 43-51/53	<1 %

Full text of R-Phrases: see under section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

After inhalation: Fresh air. If breathing stops: Immediately apply mechanical ventilation, if necessary oxygen mask. Call in physician if feeling unwell.

After skin contact: Wash off with plenty of water. Immediately 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 immediately.

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

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects.

After absorption of large quantities: Respiratory paralysis, drowsiness, dizziness, unconsciousness, narcosis, inebriation, headache, coma.

Drying-out effect resulting in rough and chapped skin.

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. Ensure supply of fresh air in enclosed rooms.

6.2 Environmental precautions

Do not allow to enter 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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Notes for prevention of fire and explosion

Not required.

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.

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/m³

Short term (< 15 min.) 15 ppm
101.2 mg/m³

EH40 WEL

Name 2-(2-Butoxyethoxy)ethanol

Short term exposure limit (STEL) 15 ppm
101.2 mg/m³

Time weighted average (TWA) 10 ppm
67.5 mg/m³

2-Propanol

EH40 WEL

Name 2-Propanol

Short term exposure limit (STEL) 500 ppm
1250 mg/m³

Time weighted average (TWA) 400 ppm
999 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.

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Respiratory protection: Required when vapours/aerosols are generated. Filter A1 (EN 141).
Eye protection: Safety glasses (EN 166).
Hand protection: Butyl rubber or nitrile rubber protective gloves.

Details on the penetration time have to be asked by the manufacturer.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374.

Hygiene measures

Change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace.

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
Melting point	not specified
Boiling point	not specified
Ignition temperature	not applicable
Flash point	>65 °C
Explosion limits	lower not applicable upper not applicable
Density (23 °C)	~ 1 g/cm ³
Viscosity, dynamic	not specified
Solubility in water	soluble

9.2 Other information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures on intense heating.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Strong oxidizing agents, aluminium, strong acids.

10.4 Conditions to avoid

Strong heating.

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10.5 Incompatible materials

Aluminium, light metals, rubber, various plastics.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LDLo human: 3570 mg/kg (RTECS, 2-Propanol)

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

Symptoms: Nausea, diarrhoea, shortness of breath.

LD₅₀ rat: 5045 mg/kg (RTECS, 2-Propanol)

Symptoms: Risk of aspiration upon vomiting, aspiration may cause pulmonary oedema and pneumonitis.

LD₅₀ rat: >2000 mg/kg (OECD 423; Tetrakaliumpyrophosphate)

LD₅₀ rat: 3300 mg/kg (OECD 423; 1-Butoxy-2-propanol)

Acute dermal toxicity

LD₅₀ rat: >2000 mg/kg (OECD 402, 1-Butoxy-2-propanol)

LD₅₀ rabbit: 4120 mg/kg (IUCLID; 2-(2-Butoxyethoxy)ethanol)

LD₅₀ rabbit: 12800 mg/kg (RTECS, 2-Propanol)

Acute inhalation toxicity

LC₅₀ rat: 46.5 mg/l /4 h (external MSDS, 2-Propanol)

Symptoms: Drowsiness, dizziness, irritation symptoms in the respiratory tract.

LC₅₀ rat: >3.4 mg/l /4 h (external MSDS, 2-Propanol)

Skin irritation

Rabbit: Skin irritation (OECD 404, 1-Butoxy-2-propanol).

Eye irritation

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

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

Rabbit: Eye irritation. Causes serious eye irritation (OECD 405; 1-Butoxy-2-propanol).

Sensitisation

Sensitisation test: Guinea pig: Negative (IUCLID; 2-Propanol).

Sensitisation test: Guinea pig: Negative (OECD 406, 1-Butoxy-2-propanol).

Genotoxicity in vivo

Mutagenicity (mammal cell test): Micronucleus: Negative (IUCLID; 2-Propanol).

Mutagenicity (mammal cell test): Negative (external MSDS; 1-Butoxy-2-propanol).

Mutagenicity (bacteria): Negative (external MSDS; 1-Butoxy-2-propanol).

Genotoxicity in vitro

Ames test: Negative (IUCLID; 2-Propanol).

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

Mutagenicity (mammal cell test): Micronucleus: Negative (IUCLID; 2-Propanol).

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Carcinogenicity

Did not show carcinogenic effects in animal experiments (IUCLID; 2-Propanol).

Reproductive toxicity

No impairment of reproductive performance in animal experiments (IUCLID; 2-Propanol).

Teratogenicity

Did not show teratogenic effects in animal experiments (IUCLID; 2-Propanol).

Specific target organ toxicity – single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure

May cause Damage to: Liver, kidney.

Aspiration hazard

No aspiration toxicity classification.

11.2 Further information

Systemic effects: After absorption: Headache, dizziness, inebriation, unconsciousness, narcosis.

After absorption of large quantities: Respiratory paralysis, coma.

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**

Leuciscus idus LC₅₀: 2750 mg/l /48 h (DIN 38412 (15); 2-(2-Butoxyethoxy)ethanol)

Pimephales promelas LC₅₀: >100 mg/l /96 h (external MSDS; 1-Butoxy-2-propanol)

Lepomis macrochirus LC₅₀: 1400 mg/l /96 h (ECOTOX Database; 2-Propanol)

Toxicity to daphnia an other aquatic invertebrates

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

Daphnia magna: EC₅₀: 13299 mg/l /48 h (IUCLID; 2-Propanol)

Daphnia magna: EC₅₀: >1000 mg/l /48 h (OECD 202; 1-Butoxy-2-propanol)

Entosiphon sulcatum: EC₅: 4930 mg/l /72 h (maximum permissible toxic concentration) (external MSDS; 2-Propanol)

Toxicity to alga

Desmodesmus subspicatus IC₅₀: > 1000 mg/l / 72 h (IUCLID; 2-Propanol)

Pseudokirchneriella subspicatus EC₅₀: > 1000 mg/l / 96 h (external MSDS; 1-Butoxy-2-propanol)

Toxicity to bacteria

Pseudomonas putida EC₅: 1050 mg/l /16 h (external MSDS, 2-Propanol)

Activated sludge EC₅₀: >1000 mg/l / 180 min (OECD 209; 1-Butoxy-2-propanol)

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.

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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: 58 % /28 d (OECD 301 E; 2-(2-Butoxyethoxy)ethanol)

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

Biodegradation: 95 % / 21 d (OECD 301B; 2-Propanol)

Readily biodegradable (2-Propanol)

Biodegradation: 90 % / 28 d (OECD 301E; 1-Butoxy-2-propanol)

Readily biodegradable (1-Butoxy-2-propanol)

Theoretical oxigen demand (ThOD)

2400 mg/g (external MSDS, 2-Propanol)

2170 mg/g (IUCLID; 2-(2-Butoxyethoxy)ethanol)

Ratio BOD / ThBOD

BOD₅: 49 % (IUCLID; 2-Propanol)

BOD₅: 11 % (IUCLID; 2-(2-Butoxyethoxy)ethanol)

Ratio COD / ThBOD

96 % (external MSDS, 2-Propanol)

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

12.3 Bioaccumulative potential

Partition coefficient: n-octanol / water: log P_{OW}: 0.56 (25 °C) (experimental; 2-(2-Butoxyethoxy)ethanol).

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

Partition coefficient: n-octanol / water: log P_{OW}: 0,05 (OECD 107; 2-Propanol).

No bioaccumulation is to be expected (2-Propanol).

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
200129*

Name according to directive 2000/532/EC:
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

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be to a packaging return system.

Code of the waste
200139

Name according to directive 2000/532/EC:
plastics.

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

Regulation (EC) No. 1907/2006

Non-ionic surfactants: <5 %; soap: <5 %, phosphates: <5 %.
perfumes.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Reason for revision:

General update.

Text of any R phrases referred to under section 2 and 3:

- | | |
|-------|--|
| 11 | Highly flammable. |
| 36 | Irritating to eyes. |
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |
| 43 | May cause sensitisation by skin contact. |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 67 | Vapours may cause drowsiness and dizziness. |

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.