

# Safety data sheet

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

Date of issue: 23.10.2013      Supersedes edition of: ---

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

### **1.1 Product identifier**

Product name:            Lorol Duftöl Exotica

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

Scented oil

### **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**

---      ---                R 52/53

### **2.2 Label elements**

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

Symbol:                ---      ---

R-phrases:            52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases:            ---

Contains Limonene. May produce an allergic reaction.

### **2.3 Other hazards**

Not known.

## **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				
Isotridecanol, ethoxylated 69011-36-5	NLP 500-241-6		Xn R 22-41	<5%
REACH Registration Number: 02-2119552461-55-0000				
Ethanol 64-17-5	200-578-6	603-002-00-5	F R 11	<10 %
REACH Registration Number: 01-2119457610-43-0000				
(R)-p-Mentha-1,8-diene (*) 5989-27-5	227-813-5		Xi, N R 10-38-43-50/53	0.1 – <1 %

(\*) 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.

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. 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 immediately.

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, shortness of breath, dizziness, diarrhoea, nausea, CNS disorders.

Respiratory paralysis, dermatitis, narcosis, inebriation, euphoria, nausea, vomiting.

Drying-out effect resulting in rough and chapped skin.

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

No information available.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

*Suitable extinguishing media*

Carbon dioxide, foam, dry powder.

*Unsuitable extinguishing media*

For this substance / mixture no limitations of extinguishing agents are given.

### **5.2 Special hazards arising from the substance or mixture**

Contains combustible material. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at ambient temperatures. Pay attention to flashback. 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.

## **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.

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**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<sup>3</sup>

Short term (< 15 min.) 15 ppm  
 101.2 mg/m<sup>3</sup>

EH40 WEL  
 Name 2-(2-Butoxyethoxy)ethanol  
 Short term exposure limit (STEL) 15 ppm  
 101.2 mg/m<sup>3</sup>

Time weighted average (TWA) 10 ppm  
 67.5 mg/m<sup>3</sup>

*Ethanol*

EH40 WEL  
 Name Ethanol  
 Time weighted average (TWA) 1000 ppm  
 1920 mg/m<sup>3</sup>

**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:**

Tightly fitting safety goggles (EN 166).

**Hand protection:**

Glove material: Nitrile rubber.

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.

**Respiratory protection:**

Required when vapours/aerosols are generated. Filter A2 P2 (EN 14387).

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### *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:		yellow
Odour:		perfumed
pH value		~ 7
Melting point		not specified
Boiling point		not specified
Ignition temperature		not applicable
Flash point		not applicable
Explosion limits	lower	>1.3 % (Ethanol)
	upper	15 % (Ethanol)
Density (20 °C)		~ 1.0 g/cm <sup>3</sup>
Solubility in water		miscible

### **9.2 Other information**

None.

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Forms explosive mixtures with air on intense heating.

### **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: Oxidizing agents, Aluminium.

Risk of explosion with, risk of ignition or formation of inflammable gases or vapours with: Alkali metals, alkaline earth metals, alkali oxides, strong oxidizing agents, halogen-halogen compounds, chromyl chloride, ethylene oxide, fluorine, perchlorates, potassium permanganate, sulphuric acid, perchloric acid, permanganic acid, oxides of phosphorous, nitric acid, nitrogen dioxide, hydrogen peroxide.

### **10.4 Conditions to avoid**

Strong heating.

### **10.5 Incompatible materials**

Aluminium, light metals.

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

Rubber, various plastics.

### **10.6 Hazardous decomposition products**

See section 5.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD<sub>50</sub> rat: 5660 mg/kg (RTECS; 2-(2-Butoxyethoxy)ethanol)

Symptoms: Nausea, diarrhoea, shortness of breath.

LD<sub>50</sub> rat: 500 - 2000 mg/kg (OECD 423; Isotridecanol, ethoxylated)

LD<sub>50</sub> rat: 6200 mg/kg (IUCLID; Ethanol)

Symptoms: Nausea, vomiting.

LD<sub>50</sub> rat: >2000 mg/kg (external MSDS; (R)-p-Mentha-1,8-diene)

#### *Acute dermal toxicity*

LD<sub>50</sub> rabbit: 4120 mg/kg (IUCLID; 2-(2-Butoxyethoxy)ethanol)

LD<sub>50</sub> rat: 12800 mg/kg (external MSDS; Ethanol)

Symptoms: Dermatitis, drying-out effect resulting in rough and chapped skin.

LD<sub>50</sub> rabbit: >2000 mg/kg (external MSDS; (R)-p-Mentha-1,8-diene)

#### *Acute inhalation toxicity*

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

LC<sub>50</sub> rat: 95.6 mg/l /4 h (RTECS; Ethanol)

Symptoms: Slight mucosal irritations, absorption.

#### *Skin irritation*

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).

Rabbit: No irritation (OECD 404; Ethanol).

Rabbit: Irritations (external MSDS; (R)-p-Mentha-1,8-diene).

Causes skin irritation.

#### *Eye irritation*

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

Rabbit: Eye irritation (OECD 405; Isotridecanol, ethoxylated).

Rabbit: No eye irritation (OECD 405; Ethanol).

Rabbit: Eye irritation (external MSDS; (R)-p-Mentha-1,8-diene).

#### *Sensitisation*

Sensitisation test (Magnusson and Kligman): Negative (IUCLID; Ethanol).

Guinea pig: Positive (external MSDS; (R)-p-Mentha-1,8-diene).

May cause sensitization by skin contact.

May cause an allergic skin reaction.

#### *Genotoxicity in vitro*

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

Ames test: Salmonella typhimurium: Negative (National Toxicology Program; Ethanol).

Ames test: Negative (external MSDS; (R)-p-Mentha-1,8-diene).

#### *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.

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#### *Aspiration hazard*

No aspiration toxicity classification.

#### **11.2 Further information**

Chronic intoxication: Systemic effects: CNS disorders, dizziness. Damage to: Liver, kidney.

Systemic effects: Euphoria.

After absorption of large quantities: Dizziness, inebriation, narcosis, respiratory paralysis.

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 LC<sub>50</sub>: 2750 mg/l /48 h (DIN 38412 (15); 2-(2-Butoxyethoxy)ethanol)

Leuciscus idus LC<sub>50</sub>: 1-10 mg/l /96 h (external MSDS; Isotridecanol, ethoxylated)

Leuciscus idus LC<sub>50</sub>: 8140 mg/l /48 h (IUCLID; Ethanol)

Pimephales promelas LC<sub>50</sub>: 0.70 mg/l /96 h (external MSDS; (R)-p-Mentha-1,8-diene).

##### *Toxicity to daphnia an other aquatic invertebrates*

Daphnia magna: EC<sub>50</sub>: >100 mg/l /48 h (OECD 202; 2-(2-Butoxyethoxy)ethanol)

Aaquatic invertebrates: EC<sub>50</sub>: 1-10 mg/l /48 h (external MSDS; Isotridecanol, ethoxylated)

Daphnia magna: EC<sub>50</sub>: 9268-14221 mg/l /48 h (IUCLID; Ethanol)

Entosiphon sulcatum: EC<sub>5</sub>: 65 mg/l /72 h (maximum permissible toxic concentration; external MSDS; Ethanol)

Daphnia magna: EC<sub>50</sub>: 0.42 mg/l /48 h (external MSDS; (R)-p-Mentha-1,8-diene).

##### *Toxicity to algae*

EC<sub>50</sub>: 1-10 mg/l /72 h (external MSDS; Isotridecanol, ethoxylated)

Scenedesmus quadricauda: IC<sub>50</sub>: 5000 mg/l / 7 d (maximum permissible toxic concentration; external MSDS; Ethanol)

##### *Toxicity to bacteria*

Activated sludge: EC<sub>10</sub>: >10000 mg/l /17 h (DIN 38412 (8); Isotridecanol, ethoxylated)

Pseudomonas putida EC<sub>5</sub>: 6500 mg/l /16 h (maximum permissible toxic concentration; IUCLID; Ethanol)

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

Not readily biodegradable (2-(2-Butoxyethoxy)ethanol)

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

Readily biodegradable (Isotridecanol, ethoxylated)

Biodegradation: 94 % (OECD 301E; Ethanol)

Readily biodegradable (Ethanol)

Biodegradation: 41-98 % /14 d (OECD 301 C; (R)-p-Mentha-1,8-diene)

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Readily biodegradable ((R)-p-Mentha-1,8-diene)  
Biodegradation: 93.8 % /14 d (OECD 303 A; (R)-p-Mentha-1,8-diene)

*Biochemical oxygen demand (BOD)*  
930-1670 mg/g /5 d (external MSDS; Ethanol)

*Chemical oxygen demand (COD)*  
1990 mg/g (IUCLID; Ethanol)

*Theoretical oxygen demand (ThOD)*  
2170 mg/g (IUCLID; 2-(2-Butoxyethoxy)ethanol)  
2100 mg/g (external MSDS; Ethanol)

*Ratio BOD / ThBOD*  
BOD<sub>5</sub>: 11 % (IUCLID; 2-(2-Butoxyethoxy)ethanol)  
BOD<sub>5</sub>: 74 % (IUCLID; Ethanol)

*Ratio COD / ThBOD*  
96 % (IUCLID; 2-(2-Butoxyethoxy)ethanol)  
90 % (external MSDS; Ethanol)

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol / water: log P<sub>OW</sub>: 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 (external MSDS; Isotridecanol, ethoxylated).

Partition coefficient: n-octanol / water: log P<sub>OW</sub>: -0.31 (external MSDS; Ethanol).

No bioaccumulation is to be expected (Ethanol).

Partition coefficient: n-octanol / water: log P<sub>OW</sub>: 4.23 (external MSDS; (R)-p-Mentha-1,8-diene).

A remarkable bioaccumulation potential is expected ((R)-p-Mentha-1,8-diene).

### 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:*

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  
070601\*

Name according to directive 2000/532/EC:  
aqueous washing liquids and mother liquors.



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**Packaging:**

Product packaging must be disposed of in compliance with the country-specific regulations or must 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***EU regulations*

Ingredients according to Regulation (EC) on detergents No. 648/2004:

Non-ionic surfactants: Less than 5 %

Benzisothiazolinone, Methylisothiazolinone.

Perfumes. Limonene, Linalool, Citral, Hexyl Cinnamal.

**15.2 Chemical safety assessment**

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

**SECTION 16: Other information***Text of any R phrases referred to under section 2 and 3:*

10	Flammable.
11	Highly flammable.
22	Harmful if swallowed.
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.

*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.*