

# Safety data sheet

According to Regulation (EC) No. 1907/2006 (REACH)  
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## SECTION 1: Identification of the substance / mixture and of the company / undertaking

### 1.1 Product identifier

Product name: Alkoclean Exotica

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

Alcohol-based 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

This mixture is not classified as dangerous according to European Union legislation.

### 2.2 Label elements

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

This product does not need to be labelled in accordance with EC directives or respective national laws.

Contains D-limonene. May produce an allergic reaction.

### 2.3 Other hazards

Not known.

## SECTION 3: Composition / information on ingredients

Solution in water.

### *Hazardous components*

*Name according to EC-Directives:*

<i>CAS-No.</i>	<i>EC-No.</i>	<i>EC-Index-No.</i>	<i>Labelling according to EC-Directives</i>	<i>Content</i>
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

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., potassium salts (*) 84961-78-4    284-669-6	Xn R 22-38-41	<5 %
Isotridecanol, ethoxylated 69011-36-5    NLP 500-241-6	Xn R 22-41	<5%
REACH Registration Number: 02-2119552461-55-0000		
(R)-p-Mentha-1,8-diene (*) 5989-27-5    227-813-5	Xi, N R 10-38-43-50/53	<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.

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.

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

Drying-out effect resulting in rough and chapped skin.

Allergic reactions, Irritant effects, 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*

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.

**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-Propanol*

EH40 WEL

Name	2-Propanol
Short term exposure limit (STEL)	500 ppm 1250 mg/m <sup>3</sup>

Time weighted average (TWA)	400 ppm 999 mg/m <sup>3</sup>
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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:**

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.

**Other protective equipment**

Acid-resistant protective clothing.

**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:	blue
Odour:	perfumed
pH value	~ 6
Melting point	not specified
Boiling point	~ 100 °C
Ignition temperature	not applicable
Flash point	>65 °C
Explosion limits	lower 2 % (2-Propanol) upper 13.4 % (2-Propanol)
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**

No information available.

**10.4 Conditions to avoid**

Warming.

**10.5 Incompatible materials**

Substances to avoid:

Bases, acids.

Rubber, various plastics, oils.

Corrosive substances, halogenes, reactive chemikals.

**10.6 Hazardous decomposition products**

See section 5.

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

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

LD<sub>50</sub> rat: 5045 mg/kg (RTECS, 2-Propanol)

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

LD<sub>50</sub> rat: 1470 mg/kg (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)LD<sub>50</sub> rat: 500 - 2000 mg/kg (OECD 423; Isotridecanol, ethoxylated)LD<sub>50</sub> rat: >2000 mg/kg (external MSDS; (R)-p-Mentha-1,8-diene)*Acute dermal toxicity*LD<sub>50</sub> rabbit: 12800 mg/kg (RTECS, 2-Propanol)LD<sub>50</sub> rat: >2000 mg/kg (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)LD<sub>50</sub> rabbit: >2000 mg/kg (external MSDS; (R)-p-Mentha-1,8-diene)*Acute inhalation toxicity*LC<sub>50</sub> rat: 46.5 mg/l /4 h (external MSDS, 2-Propanol)

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

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***Skin irritation***

Corrosive (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)  
Causes severe skin burns.  
Rabbit: No irritation (OECD 404; Isotridecanol, ethoxylated).  
Rabbit: Irritations (external MSDS; (R)-p-Mentha-1,8-diene).  
Causes skin irritation.

***Eye irritation***

Rabbit: Eye irritation (RTECS; 2-Propanol).  
Causes serious eye irritation.  
Corrosive (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.).  
Causes serious eye damage.  
Rabbit: Eye irritation (OECD 405; Isotridecanol, ethoxylated).  
Rabbit: Eye irritation (external MSDS; (R)-p-Mentha-1,8-diene).

***Sensitisation***

Guinea pig: Negative (IUCLID; 2-Propanol).  
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 vivo***

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

***Genotoxicity in vitro***

Ames test: Negative (IUCLID; 2-Propanol).  
Mutagenicity (mammal cell test): Micronucleus: Negative (external MSDS; 2-Propanol).  
Ames test: Negative (external MSDS; (R)-p-Mentha-1,8-diene).

***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***

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

***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.  
After absorption of large quantities: CNS disorders. Possible damage to: 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 LC<sub>50</sub>: 1400 mg/l /96 h (ECOTOX Database; 2-Propanol)

Lepomis macrochirus LC<sub>50</sub>: 1-10 mg/l /96 h (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

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

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>: 13299 mg/l /48 h (IUCLID; 2-Propanol)

Entosiphon sulcatum: EC<sub>5</sub>: 4930 mg/l /72 h (maximum permissible toxic concentration; external MSDS; 2-Propanol)

Daphnia sp. EC<sub>50</sub>: 1-10 mg/l /48 h (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.)

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

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

*Toxicity to alga*

Desmodesmus subspicatus IC<sub>50</sub>: > 1000 mg/l / 72 h (IUCLID; 2-Propanol)

EC<sub>50</sub>: 1-10 mg/l (external MSDS; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.).

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

*Toxicity to bacteria*

Pseudomonas putida EC<sub>5</sub>: 1050 mg/l /16 h (external MSDS, 2-Propanol)

Activated sludge: EC<sub>10</sub>: >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: 95 % / 21 d (OECD 301E; 2-Propanol)

Readily biodegradable (2-Propanol)

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

Readily biodegradable (Isotridecanol, ethoxylated)

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

Readily biodegradable ((R)-p-Mentha-1,8-diene)

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

*Theoretical oxigen demand (ThOD)*

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

*Ratio BOD / ThBOD*

BOD<sub>5</sub>: 49 % (IUCLID; 2-Propanol)

*Ratio COD / ThBOD*

96 % (external MSDS, 2-Propanol)

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol / water: log P<sub>OW</sub>: 0,05 (OECD 107; 2-Propanol).

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

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

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

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  
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.

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 %

Anionic surfactants: Less than 5 %



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Perfumes. Citral, limonene, linalool.

### **15.2 Chemical safety assessment**

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

## **SECTION 16: Other information**

### *Reason for alteration:*

General update.

SECTION 5: Firefighting measures

SECTION 9: Physical and chemical properties

SECTION 13: Disposal considerations

### *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.
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.*