

# Safety data sheet

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

Date of issue: 26.10.2020      Supersedes edition of: 11.02.2020

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

### 1.1 Product identifier

Product name:            Clean polish

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

Identified uses: Metal care

### 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

Skin Sens. 1, H317

Aquatic Chronic 2, H411

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:*

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains D-limonene. May produce an allergic reaction.

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*Precautionary statements:*

P280 Wear protective gloves/eye protection.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

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

Contains Distillates (petroleum).

**2.3 Other hazards**

Not known.

**SECTION 3: Composition / information on ingredients**

Solution of petroleum distillate.

*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</i>	
2-(2-Butoxyethoxy)ethanol				> 10 - < 25 %
112-34-5	203-961-6	603-096-00-8	Eye Irrit. 2, H319	
REACH Registration Number: 01-2119475104-44				
D-Limonene				< 10 %
5989-27-5	227-813-5	601-029-00-7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
REACH Registration Number: 01-2119529223-47				

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.

After skin contact: Wash off with plenty of water. Immediately remove contaminated clothing.

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

Allergic reactions. 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 on intense heating. 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. 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 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.

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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>
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##### 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>
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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: 0.381 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 Professional.

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 A (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:	colourless
Odour:	perfumed
pH value	not applicable
Melting point	not specified
Boiling point	not specified
Ignition temperature	not specified
Flash point	> 60 °C
Explosion limits	lower not specified upper not specified
Density (20 °C)	0.9 g/cm <sup>3</sup>
Solubility in water	insoluble

### 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: Strong oxidizing agents, acids.

Risk of explosion with: Violent reactions possible with: Oxidizing agents, Aluminium.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

Aluminium, light metals.

### 10.6 Hazardous decomposition products

See section 5.

## 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)

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Symptoms: Nausea, diarrhoea, shortness of breath.  
LD<sub>50</sub> rat: > 2000 mg/kg (OECD 423; D-Limonene)

#### *Acute dermal toxicity*

LD<sub>50</sub> rabbit: 2764 mg/kg (ECHA; 2-(2-Butoxyethoxy)ethanol)  
LD<sub>50</sub> rabbit: > 5000 mg/kg (external MSDS; D-Limonene)

#### *Acute inhalation toxicity*

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

#### *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: Mild skin irritation (OECD 404; D-Limonene).

#### *Eye irritation*

Rabbit: Eye irritation. Causes serious eye irritation (RTECS; 2-(2-Butoxyethoxy)ethanol).  
Rabbit: No eye irritation (OECD 405; D-Limonene).

#### *Sensitisation*

Local lymph node assay (LLNA) mouse: Positive (OECD 429; D-Limonene).  
May cause an allergic skin reaction.

#### *Genotoxicity in vivo*

Comet assay, rat, male, oral: Negative (external MSDS; D-Limonene).

#### *Genotoxicity in vitro*

Ames test: Salmonella typhimurium: Negative (National Toxicology Program; 2-(2-Butoxyethoxy)ethanol).  
In vitro mammalian cell gene mutation test, mouse lymphoma test: Negative (OECD 476; D-Limonene).

#### *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*

Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

### **11.2 Further information**

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*

Lepomis macrochirus LC<sub>50</sub>: 1300 mg/l /48 h (OECD 203; ECHA; 2-(2-Butoxyethoxy)ethanol)

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Pimephales promelas LC<sub>50</sub>: 0.72 mg/l /96 h (OECD 203; D-Limonene).

*Toxicity to daphnia and other aquatic invertebrates*

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

Daphnia magna: EC<sub>50</sub>: 0.307 mg/l; 48 h (OECD 202; D-Limonene).

*Toxicity to algae*

Pseudokirchneriella subcapitata: ErC<sub>50</sub>: 0.32 mg/l; 72 h (OECD 201; D-Limonene)

Pseudokirchneriella subcapitata: EC<sub>10</sub>: 0.174 mg/l; 72 h (OECD 201; D-Limonene)

*Toxicity to bacteria*

Activated sludge EC<sub>50</sub>: 209 mg/l; 3 h (OECD 209; D-Limonene)

## 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: 85 % /28 d (OECD 301 C; 2-(2-Butoxyethoxy)ethanol)

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

Biodegradation: 71.4 %; 28 d; aerobic (OECD 301 B; D-Limonene)

Readily biodegradable (D-Limonene)

### *Ratio COD / ThBOD*

96 % (ECHA; 2-(2-Butoxyethoxy)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).

Partition coefficient: n-octanol / water: log P<sub>ow</sub>: 4.38 (37 °C) (OECD 117; D-Limonene).

Potential bioaccumulation (D-Limonene).

## 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

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.

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Code of the waste  
200129\*Name according to directive 2000/532/EC:  
detergents containing dangerous substances.**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:

Aliphatic hydrocarbons: 30 % and more.

Non-ionic surfactants: Less than 5 %

Perfumes. 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:*

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SECTION 6: Accidental release measures

SECTION 8: Exposure controls/personal protection

Control parameters

SECTION 9: Physical and chemical properties

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SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 15: Regulatory information

SECTION 16: Other information

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

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.



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*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.*