

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : oro® Alcohol-Based Cleaner  
Revision : 01.08.2007      Version : 2.0.0  
Print date : 20.08.2007

## 01. Identification of the substance/preparation and of the company/undertaking

**Product name :** oro® Alcohol-Based Cleaner  
**Use of the substance / preparation :** Universal cleaner for floors and all other washable surfaces.  
**Manufacturer/Supplier :** orochemie GmbH + Co. KG  
**Street/P.O.Box :** Max-Planck-Strasse 27  
**Country code/Postal code/Town/City :** D - 70806 Kornwestheim, Germany  
**Telephone :** +49/7154/1308-0  
**Telefax :** +49/7154/1308-40  
**Emergency information :** +49/7154/13 08-0

## 02. Hazards identification

**Hazard designation**  
Irritating to eyes.  
Classification : Xi ; R 36

## 03. Composition/information on ingredients

### Chemical characterization

oro® Alcohol-Based Cleaner contains ethanol, anionic and non-ionic surfactants, complexing and auxiliary agents in aqueous solution.

### Hazardous components

ETHANOL ; EC-No. : 200-578-6; CAS-No. : 64-17-5

Percentage : 15 - 20 %  
Classification : F ; R 11

FATTY ALCOHOL ETHERSULFATE, SODIUM SALT ; EC-No. : 221-416-0; CAS-No. : 9004-82-4

Percentage : 5 - 10 %  
Classification : Xi ; R 36/38

FATTY ALCOHOL POLYGLYCOL ETHER ; CAS-No. : 26183-52-8

Percentage : 1 - 5 %  
Classification : Xi ; R 41

SODIUM ETHYLENEDIAMINETETRAACETATE ; EC-No. : 200-573-9; CAS-No. : 64-02-8

Percentage : 0,5 - 1 %  
Classification : Xi ; R 36/37/38

FATTY ALCOHOL POLYGLYCOL ETHER ; CAS-No. : 97043-91-9

Percentage : 1 - 5 %  
Classification : Xi ; R 41 Xn ; R 22

For the wording of the listed risk phrases refer to section 16.

## 04. First-aid measures

### General

No particular measures required.

### After inhalation

Let in fresh air. Seek medical treatment in the event of complaints.

### After skin contact

Flush with plenty of water.

### After eye contact

Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

### After ingestion

Drink plenty of water. Do not induce vomiting. Contact a doctor immediately.

## 05. Fire-fighting measures

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## Suitable extinguishing media

Not combustible under normal conditions. Extinguishing powder. Water haze. Adapt extinguishing measures to suit the environment.

## Unsuitable extinguishing media

Waterjet.

## Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

None known.

## Special protective equipment

Adapt protective equipment to surrounding fire.

## Additional information

Cool endangered containers with water in case of fire.

## 06. Accidental release measures

### Personal precautions

Wear suitable protective clothing, gloves and eye/face protection. Keep away from ignition sources - No smoking.

### Environmental precautions

Prevent from flowing into surface water/ground water.

### Methods for cleaning up/collecting

Take up with a liquid absorbing material and proceed according to the waste disposal regulations.

### Additional information

Remove according to regulations.

## 07. Handling and storage

### Information for safe handling

Containers to be opened and handled with care. Keep away from ignition sources and provide for good ventilation.

### Information about protection against explosions and fires

Keep away from ignition sources - No smoking.

### Requirements to be met by storerooms and containers

Keep only in the original container. Keep in a cool place. Do not store in temperatures below 5 °C. Keep container tightly closed.

### Information about separation of incompatible products

Store the foodstuffs separately. Do not store together with oxidizing, self-igniting substances and highly flammable solid substances.

## 08. Exposure controls/personal protection

### Additional information about engineering measures

No particular measures required.

### Components with critical values that require monitoring at the workplace (exposure limits)

ETHANOL ; CAS-No. : 64-17-5

Specification : threshold limit value ( GB )

Value : 1000 ppm / 1920 mg/m<sup>3</sup>

Specification : threshold limit value ( GLOB )

Value : 500 ppm / 960 mg/m<sup>3</sup>

### Personal protective equipment

Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuff. Avoid contact with skin and eyes.

### Respiratory protection

No particular measures required.

### Hand protection

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

### Eye protection

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Use tightly fitting safety glasses.

## Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

Form : Liquid.  
Colour : Clear. Blue.  
Odour : Characteristic.

### Relevant safety data

Melting point / range :	( 1013 hPa )	no data available	°C	
Boiling point / range :	( 1013 hPa )	no data available	°C	
Flash point :		41	°C	DIN 51755
Ignition temperature :		425	°C	
Lower explosion limit :		3,5	% b.v.	
Upper explosion limit :		15	% b.v.	
Vapour pressure :	( 50 °C )	ca.	135	hPa
Density :	( 20 °C )		0,97 - 1,00	g/cm <sup>3</sup>
Solvent-separation test :	( 20 °C )	<	3	%
Solubility in water :	( 20 °C )		100	% b.w.
pH value :			6 - 7,5	
Flow time :	( 20 °C )	<	20	s      DIN-cup 4 mm

## 10. Stability and reactivity

### Conditions to avoid

None, if handled according to order.

### Materials to avoid

None known.

### Hazardous decomposition products

None known.

## 11. Toxicological information

### Toxicological tests

#### LD50/LC50 values that are relevant for classification

No data available.

#### Primary irritant effect

No data available.

#### Sensitization

No data available.

### Experience on practice

Ethanol: irritating to mucous membranes, narcotic effect.

### Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

## 12. Ecological information

### Details on elimination (persistence / degradability)

#### Abiotal elimination

No data available.

#### Biological degradation / elimination

All active agents are biodegradable at the dilution rates arising in the sewage system.

### Fate in environmental compartments

There are no data available on the preparation itself.

### Ecotoxic effects

#### Performance in sewage-treatment plants

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In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

## Other information

Ethanol: fish toxicity LC50 > 1000 mg/l (Leuciscus idus, 48 h); harmfulness limit for small crustaceans EC50 > 100 mg/l (Daphnia magna, 48 h).

## 13. Disposal considerations

### Product

Concentrate/larger quantities: EWC 07 06 01 aqueous cleaning liquid. Disposal in conformity with authority regulations.

### Contaminated packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

## 14. Transport information

### Land transport ADR/RID

#### Classification

Class : 3      Kemlercode : 30  
Substance number : 1170      Classification-Code : F1  
LQ 7 - Tunnel restriction code : E

#### Proper shipping name

ETHANOL, SOLUTION

#### Packaging

Packaging group : III  
Label : 3

### Maritime transport IMDG/GGVSea

#### Classification

IMDG-Code : 3      EmS number : F-E / S-D  
UN number : 1170

LQ 5 I

#### Proper shipping name

ETHANOL, SOLUTION

#### Packaging

Packaging group : III  
Label : 3

### Air transport ICAO-TI and IATA-DGR

#### Classification

Class : 3  
UN number : 1170

#### Proper shipping name

ETHANOL, SOLUTION

#### Packaging

Packaging group : III  
Label : 3

## 15. Regulatory information

### Classification according to EC directives

#### Danger symbol and danger designation



Xi ; Irritant

#### R-phrases

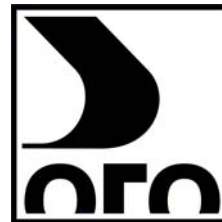
36      Irritating to eyes.

#### S-phrases

2      Keep out of the reach of children.  
37      Wear suitable gloves.  
46      If swallowed, seek medical advice immediately and show this container or label.

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

## 16. Other information

### Processing instructions / technical data sheets

Please observe the label/directions for use!

### Further information

#### Relevant changes

14. Classification (ADR) - 14. Classification (IMDG)

#### R-Phrases of components

11	Highly flammable.
22	Harmful if swallowed.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
36/38	Irritating to eyes and skin.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.

### Contact

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Dipl. Ing. Elisabeth Gehring Tel. No.: +49/7154/1308-37

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.