

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : oro<sup>®</sup> Grease Remover  
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<sup>®</sup> Grease Remover  
**Use of the substance / preparation :** oro<sup>®</sup> Grease Remover is a concentrate for removing alkali-soluble stainings. The product stands out for its particularly fat-dissolving properties.  
**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<sup>®</sup> Grease Remover contains phosphates, anionic and non-ionic surfactants, alkaline cleaning agents and complexing agents in aqueous solution.

### Hazardous components

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

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

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

Percentage : 1 - 5 %  
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

SODIUM METASILICATE PENTAHYDRATE ; EC-No. : 229-912-9; CAS-No. : 10213-79-3

Percentage : 1 - 5 %  
Classification : C ; R 34 Xi ; R 37

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

## 04. First-aid measures

### General

Immediately remove all contaminated clothing.

### After inhalation

Let in fresh air. Call a doctor, should the air passages be affected.

### 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

### Suitable extinguishing media

Carbon dioxide. Extinguishing powder. Water haze. Not combustible under normal conditions. Adapt extinguishing measures to

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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.

## 06. Accidental release measures

### Personal precautions

Wear suitable protective clothing, gloves and eye/face protection.

### 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.

### Information about protection against explosions and fires

No anti-explosion measures necessary.

### 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.

### Information about separation of incompatible products

Store the foodstuffs separately.

## 08. Exposure controls/personal protection

### Additional information about engineering measures

No particular measures required.

### 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

Use tightly fitting safety glasses.

### Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

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

### Relevant safety data

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Boiling point / range :	( 1013 hPa )	ca.	100	°C	
Flash point :			not applicable	°C	DIN 51755
Ignition temperature :			not applicable	°C	
Lower explosion limit :			not applicable	% b.v.	
Upper explosion limit :			not applicable	% b.v.	
Density :	( 20 °C )		1,08 - 1,1	g/cm <sup>3</sup>	
Solubility in water :	( 20 °C )		100	% b.w.	
pH value :			12 - 13		
pH value :	( 20 °C / 20 g/l )		10 - 11		

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## 10. Stability and reactivity

### Conditions to avoid

None, if handled according to order.

### Materials to avoid

None known.

### Hazardous decomposition products

None known.

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## 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

Eye contact: irritation.

### 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).

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## 12. Ecological information

### Details on elimination (persistence / degradability)

#### Abiotoxic 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

No ecological problems are expected when used and handled properly.

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## 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.

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## 14. Transport information

### Land transport ADR/RID

#### Classification

Class : -

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## Maritime transport IMDG/GGVSea

Classification

IMDG-Code : -

## Air transport ICAO-TI and IATA-DGR

Classification

Class : -

## 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.  
28                      After contact with skin, wash immediately with plenty of water.  
26                      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

#### R-Phrases of components

- 22                      Harmful if swallowed.  
34                      Causes burns.  
36/37/38                Irritating to eyes, respiratory system and skin.  
36/38                      Irritating to eyes and skin.  
37                      Irritating to respiratory system.  
41                      Risk of serious damage to eyes.

### Contact

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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.