

Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : oro[®] Professional Window Cleaning Product
Revision : 01.06.2010 Version : 3.0.0
Print date : 01.06.2010

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

Product name : oro[®] Professional Window Cleaning Product
Use of the substance / preparation : For cleaning windows and large glass surfaces. The professional window cleaning product removes grease, fingerprints, nicotine stains, etc.
Manufacturer/Supplier : orochemie GmbH + Co. KG
Street/P.O.Box : Max-Planck-Straße 27
Country code/Postal code/Town/City : 70806 Kornwestheim
Telephone : +49 7154 1308-0
Telefax : +49 7154 1308-40
Emergency information : +49 7154 1308-0

02. Hazards identification

Hazard designation

-

Particular information pertaining specific risk for human and environment

None, if handled according to order.

03. Composition/information on ingredients

Chemical characterization

oro[®] Professional window cleaning product 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 : 10 - 15 %

Classification : F ; R 11

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

Percentage : 1 - 5 %

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 : 1 - 5 %

Classification : Xi ; R 41 Xn ; R 22

1-HYDROXYETHAN-1,1-DIPHOSPHONSÄURE ; EC-No. : 220-552-8; CAS-No. : 2809-21-4

Percentage : < 0,5 %

Classification : Xi ; R 41

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.

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05. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide. Extinguishing powder. Water haze. Not combustible under normal conditions. 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.

06. Accidental release measures

Personal precautions

Keep away from sources of ignition - 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

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.

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

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

Specification : Limit value (8 hours) (GB)

Value : 1000 ppm / 1920 mg/m³

Specification : Limit value (8 hours) (GLOB)

Value : 500 ppm / 960 mg/m³

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.

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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	
Boiling point / range :	(1013 hPa)	ca.	98 °C	
Flash point :			35 °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)		0,95 - 1,05 g/cm ³	
Solvent-separation test :	(20 °C)	<	3 %	
Solubility in water :	(20 °C)		100 % b.w.	
pH value :			6 - 7	
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

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

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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
UN number : 1170 Classification-Code : F1

LQ 7 · E 1 · Tunnel restriction code : D/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 Marine Poll. : -

LQ 5 I · E 1

Proper shipping name

ETHANOL, SOLUTION

Packaging

Packaging group : III
Label : 3

Air transport ICAO-TI and IATA-DGR

Classification

Class : 3
UN number : 1170

E 1

Proper shipping name

ETHANOL, SOLUTION

Packaging

Packaging group : III
Label : 3

15. Regulatory information

Classification according to EC directives

R-phrases

Although there is no labelling required for this product, we nevertheless advise observation of the safety recommendations.

S-phrases

2 Keep out of the reach of children.
46 If swallowed, seek medical advice immediately and show this container or label.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .

Special designation for certain preparations

101 Safety data sheet available for professional user on request.

16. Other information

Processing instructions / technical data sheets

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Please observe the label/directions for use!

Further information

Relevant changes

03. Hazardous components - 15. Special designation for certain preparations

R-Phrases of components

11	Highly flammable.
22	Harmful if swallowed.
36/38	Irritating to eyes and skin.
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.
