

Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : oro[®] Glass Cleaner
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[®] Glass Cleaner
Use of the substance / preparation : For cleaning windows, car glass, mirrors, glass tables, etc. oro[®] glass cleaner 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

Flammable. · Irritating to eyes. · Vapours may cause drowsiness and dizziness.
Classification : R 10 · Xi ; R 36 · R 67

03. Composition/information on ingredients

Chemical characterization

oro[®] glass cleaner contains isopropanol, anionic surfactants and auxiliary agents in aqueous solution.

Hazardous components

PROPAN-2-OL ; EC-No. : 200-661-7; CAS-No. : 67-63-0

Percentage : 25 - 30 %

Classification : F ; R 11 Xi ; R 36 R 67

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. Call a doctor, should the air passages be affected.

After skin contact

Flush with 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.

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

When extinguishing fires, use breathing apparatus with an independent source of air.

Additional information

Cool endangered containers with water in case of fire.

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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)

PROPAN-2-OL ; CAS-No. : 67-63-0

Specification : Limit value (8 hours) (GB)
Value : 400 ppm / 999 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

No particular measures required.

Eye protection

No particular measures required.

Body protection

No particular measures required.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Blue.
Odour : Mild aromatic. Like alcohol.

Relevant safety data

Melting point / range :	(1013 hPa)	no data available	
Boiling point / range :	(1013 hPa)	92 °C	
Flash point :		25 °C	DIN 51755
Ignition temperature :		425 °C	
Lower explosion limit :		2 % b.v.	
Upper explosion limit :		12 % b.v.	
Vapour pressure :	(50 °C) ca.	160 hPa	

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Density :	(20 °C)		0,9 - 1	g/cm ³
Solvent-separation test :	(20 °C)	<	3	%
Solubility in water :	(20 °C)		100	% b.w.
pH value :			10 - 11	
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

2-Propanol: 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)

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

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

Other information

2-Propanol: fish toxicity LC50 = 8970 mg/l (Leuciscus idus, 48 h); harmfulness limit for small crustaceans EC50 > 1000 mg/l (Daphnia magna).

13. Disposal considerations

Product

Concentrate/larger quantities: EWC 07 06 04 other organic solvents. 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
UN number : 1987

Kemlercode : 30
Classification-Code : F1

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LQ 7 · E 1 · Tunnel restriction code : D/E

Proper shipping name

ALCOHOLS, N.O.S.

Hazardous components

ISOPROPANOL

Packaging

Packaging group : III

Label : 3

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : 3

EmS number : F-E / S-E

UN number : 1987

Marine Poll. : -

LQ 5 I · E 1

Proper shipping name

ALCOHOLS, N.O.S.

Hazardous components

ISOPROPANOL

Packaging

Packaging group : III

Label : 3

Air transport ICAO-TI and IATA-DGR

Classification

Class : 3

UN number : 1987

E 1

Proper shipping name

ALCOHOLS, N.O.S.

Hazardous components

ISOPROPANOL

Packaging

Packaging group : III

Label : 3

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xi ; Irritant

R-phrases

10 Flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

S-phrases

2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

16. Other information

Processing instructions / technical data sheets

Please observe the label/directions for use!

Further information

Relevant changes

03. Hazardous components

R-Phrases of components

11 Highly flammable.

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36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.

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.
