

Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : oro[®] Sanitary 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[®] Sanitary Cleaner
Use of the substance / preparation : oro[®] Sanitary cleaner is a universal acid cleanser for removing hard water stains and other mineral, acid-soluble stainings, e.g. urinary calculus, cement cloudiness on surfaces (tiles, washbasins, toilets, 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
Irritating to eyes and skin.
Classification : Xi ; R 36/38

03. Composition/information on ingredients

Chemical characterization

oro[®] Sanitary cleaner contains inorganic acids, non-ionic surfactants and auxiliary agents in aqueous solution.

Hazardous components

PHOSPHORIC ACID ; EC-No. : 231-633-2; CAS-No. : 7664-38-2

Percentage : 5 - 10 %

Classification : C ; R 34

SULPHAMIDIC ACID ; EC-No. : 226-218-8; CAS-No. : 5329-14-6

Percentage : 1 - 5 %

Classification : R 52/53 Xi ; R 36/38

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

Percentage : 1 - 5 %

Classification : Xi ; R 41 Xn ; R 22

ALKYLPOLYGLYCOLETHER PHOSPHORIC ACID ESTER ; CAS-No. : 25852-45-3

Percentage : 1 - 5 %

Classification : Xi ; R 41 Xi ; R 38

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

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

06. Accidental release measures

Personal precautions

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

Environmental precautions

Do not empty into drains.

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. Make sure that ventilation is adequate.

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)

PHOSPHORIC ACID ; CAS-No. : 7664-38-2

Specification : Limit value (Short term) (EC)

Value : 2 mg/m³

Version date : 08.06.2000

Specification : Limit value (8 hours) (EC)

Value : 1 mg/m³

Version date : 08.06.2000

Personal protective equipment

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

Respiratory protection

Provide for good ventilation.

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

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No particular measures required.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Clear. Light red.
Odour : Characteristic.

Relevant safety data

Melting point / range :	(1013 hPa)	ca.	no data available	
Boiling point / range :	(1013 hPa)		100	°C
Flash point :			not applicable	DIN 51755
Ignition temperature :			not applicable	
Lower explosion limit :			not applicable	
Upper explosion limit :			not applicable	
Density :	(20 °C)		1,05 - 1,1	g/cm ³
Solubility in water :	(20 °C)		100	% b.w.
pH value :			01	
pH value :	(20 °C / 100 g/l)		1 - 2	

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

None known.

Experience on practice

The product has an irritating effect on eyes and skin.

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.

Ecotoxicological effects

Performance in sewage-treatment plants

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

13. Disposal considerations

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Concentrate/larger quantities: EWC 20 01 14 acids. 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 : -

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

36/38 Irritating to eyes and skin.

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.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contact

Dr. Klaus-Michael Wolf Tel. No.: +49 7154 1308-27 · Fax. No.: +49 7154 1308-40
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.
