

# Material Safety Data Sheet

## according to Regulation (EC) 1907/2006

Product name : A 30 Disinfectant for Rotary Instruments  
Revision : 12.01.2010 Version : 4.0.0  
Print date : 12.01.2010

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

**Product name :** oro<sup>®</sup> Hygienesystem A 30 Disinfectant for Rotary Instruments  
**Use of the substance / preparation :** A 30 is a highly effective, aldehyde-free ready-to-use solution for simultaneously disinfecting and cleaning rotary instruments (burs and milling cutters made of steel and stainless steel, diamond instruments, etc.) in clinics, surgeries and laboratories..  
**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

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### 02. Hazards identification

#### Hazard designation

Risk of serious damage to eyes. - Irritating to skin. - Vapours may cause drowsiness and dizziness.  
Classification : Xi ; R 41 - Xi ; R 38 - R 67

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### 03. Composition/information on ingredients

#### Chemical characterization

A 30 contains alcohols, potassium hydroxide and auxiliary agents in aqueous solution.

#### Hazardous components

N-PROPANOL ; EC-No. : 200-746-9; CAS-No. : 71-23-8

Percentage : 15 - 20 %

Classification : F ; R 11 Xi ; R 41 R 67

POTASSIUM HYDROXIDE ; EC-No. : 215-181-3; CAS-No. : 1310-58-3

Percentage : 1 - 2 %

Classification : C ; R 35 Xn ; R 22

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

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### 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 protective equipment

Adapt protective equipment to surrounding fire.

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### 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.

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### 07. Handling and storage

#### Information for safe handling

Make sure that ventilation is adequate.

#### 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.

#### Information about separation of incompatible products

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

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### 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)

N-PROPANOL ; CAS-No. : 71-23-8

Specification : Limit value (8 hours) ( GB )

Value : 200 ppm / 500 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

Use tightly fitting safety glasses.

#### Body protection

No particular measures required.

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### 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 )	ca. 100 °C
Flash point :		33 °C
Ignition temperature :		360 °C
Lower explosion limit :		2,1 % b.v.
Upper explosion limit :		13,5 % b.v.

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Density :	( 20 °C )		0,97 - 1,01	g/cm <sup>3</sup>
Solvent-separation test :	( 20 °C )	<	3	%
Solubility in water :	( 20 °C )		100	% b.w.
pH value :			12,9 - 13,9	
Flow time :	( 20 °C )	<	20	s

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## 10. Stability and reactivity

### Conditions to avoid

None, if handled according to order.

### Materials to avoid

Reactions with acids: development of heat.

### Hazardous decomposition products

None known.

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## 11. Toxicological information

### Toxicological tests

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

Specification : LD-50  
Routes of entry : oral  
Test species : Rat  
Value / dosage : > 5 ml/kg

Testing method : OECD 401.

#### Primary irritant effect

No data available.

#### Sensitization

No data available.

### Experience on practice

Skin and eye contact: frequent and long lasting contact may cause irritation and skin inflammation.

### 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

The organic ingredients 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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## 13. Disposal considerations

### Product

Concentrate/larger quantities: EWC 07 06 99 Waste, n.o.s. (disinfectant). 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 : 3 Kemlercode : 38

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UN number : 2924 Classification-Code : FC

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

**Proper shipping name**  
FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**Hazardous components**  
N-PROPANOL · POTASSIUM HYDROXIDE

**Packaging**

Packaging group : III  
Label : 3 / 8

### Maritime transport IMDG/GGVSea

**Classification**

IMDG-Code : 3 EmS number : F-E / S-C  
UN number : 2924 Marine Poll. : -

LQ 5 I · E 1

**Proper shipping name**  
FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**Hazardous components**  
N-PROPANOL · POTASSIUM HYDROXIDE

**Packaging**

Packaging group : III  
Label : 3 / 8

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

**Classification**

Class : 3 / 8  
UN number : 2924

E 1

**Proper shipping name**  
FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**Hazardous components**  
N-PROPANOL · POTASSIUM HYDROXIDE

**Packaging**

Packaging group : III  
Label : 3 / 8

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## 15. Regulatory information

### Classification according to EC directives

Danger symbol and danger designation



Xi ; Irritant

**Hazard-determining components of labelling**

POTASSIUM HYDROXIDE ; CAS-No. : 1310-58-3

**R-phrases**

41 Risk of serious damage to eyes.  
38 Irritating to skin.  
67 Vapours may cause drowsiness and dizziness.

**S-phrases**

37/39 Wear suitable gloves and eye/face protection.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .

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## 16. Other information

### Processing instructions / technical data sheets

Please observe the label/directions for use!

### Further information

Relevant changes

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03. Hazardous components - 08. Components with critical values that require monitoring at the workplace (exposure limits) -  
14. Classification (ADR) - 14. Classification (IMDG) - 14. Classification (ICAO)

### R-Phrases of components

11                      Highly flammable.  
22                      Harmful if swallowed.  
35                      Causes severe burns.  
41                      Risk of serious damage 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.

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