

Product name: OP-S NONDRY  
Revision date: 2018-12-04  
Document No.: M0185

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SDS-ID: SG-EN/8.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name: OP-S NONDRY  
Batch No. ≤8183-01  
Cat. No. 40700064, 40700065

Container size: 1; 5 l

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: Polishing agent for metallographic specimen preparation.

### 1.3. Details of the supplier of the safety data sheet

Supplier: Struers ApS, Singapore Branch  
627A Aljunied Road  
#07-08 BizTech Centre  
389842 Singapore  
Tel: +65 6299 2268

Responsible for safety data sheet authoring: Responsible for safety data sheet authoring: DHI  
Any questions to the contents of this safety data sheet should be sent to:  
struers@struers.dk

### 1.4. Emergency telephone number

24-hour Emergency Medical Service (EMS): 995.

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

GHS: STOT repeated Cat 2

### 2.2. Label elements



#### Warning

H373K May cause damage to organs (kidneys) through prolonged or repeated exposure.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P314 Get medical advice/attention if you feel unwell.  
P501 Dispose of contents/container in accordance with local regulations.  
  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

### 2.3. Other hazards

Contains A mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

PBT/vPvB: No information available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: Silica and water.

GHS:

%:	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
<25	107-21-1	203-473-3	-	Ethanediol	Acute oral toxicity Cat 4 STOT repeated Cat 2	
<0.0015	55965-84-9		-	A mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	Acute inhalation toxicity Cat 3 Acute dermal toxicity Cat 3 Acute oral toxicity Cat 3 Skin corrosion/irritation Cat 1B Skin sensitizer Cat 1 Aquatic, Acute Cat 1 Aquatic, Chronic Cat 1	

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## SECTION 4: FIRST AID MEASURES

### **4.1. Description of first aid measures**

Inhalation: Move into fresh air and keep at rest.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If uncomfortable: Seek hospital and bring along these instructions. Do not induce vomiting.

### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Medical attention/treatments: Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: No specific precautions.

### **5.2. Special hazards arising from the substance or mixture**

Specific hazards: In case of fire, toxic gases may be formed.

### **5.3. Advice for firefighters**

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

Protective equipment: Avoid contact with skin and eyes. For personal protection, see section 8. (\*)

Emergency procedures: No specific recommendations. For personal protection, see section 8. (\*)

### **6.2. Environmental precautions**

Environmental precautions: Avoid discharge into water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Dam and absorb spillage with sand, sawdust or other absorbent.

### **6.4. Reference to other sections**

Reference: For personal protection, see section 8. For waste disposal, see section 13.

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## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Safe handling advice: Avoid contact with skin and eyes. Observe good chemical hygiene practices.

Technical measures: Work practice should minimise contact.

Technical precautions: Local exhaust is recommended.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: No special precautions.

Storage conditions: Store in tightly closed original container. Store at room temperature.

### 7.3. Specific end use(s)

Specific use(s): No information available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
107-21-1	Ethylene glycol	-	50 ppm	127 mg/m3	PEL (Short Term)	- SG

### 8.2. Exposure controls

Engineering measures: Local exhaust is recommended. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation.

Personal protection: Personal protection equipment should be chosen according to the ANSI standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with combination filter, type A2/P2.

Hand protection: Risk of contact: Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection: Risk of splashes: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of contact.

Environmental Exposure Controls: Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

(\*)

<u>Form:</u>	Liquid.
<u>Odour:</u>	Odourless.
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	9-10
<u>Melting point:</u>	0°C
<u>Boiling point:</u>	100°C
<u>Flash point:</u>	Not relevant.
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosion limits:</u>	Not relevant.
<u>Vapour pressure:</u>	Not available.
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	1-1.2
<u>Solubility:</u>	Miscible with water.
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°C):</u>	Not available.
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	Not available.
<u>Explosive properties:</u>	Not available.
<u>Oxidising properties:</u>	Not available.

### 9.2. Other information

Other data: Volatile Organic Compound (VOC): 250 g/l (calculated)

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: None under normal conditions.

### 10.2. Chemical stability

Stability: Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: None under normal conditions.

### 10.4. Conditions to avoid

Conditions/materials to avoid: Keep away from heat, sparks and open flame.

### 10.5. Incompatible materials

Incompatible materials: Strong oxidising substances, strong acids and strong bases.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: In case of fire, toxic gases may be formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: May cause damage to organs (kidneys) through prolonged or repeated exposure.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: Not relevant at normal room temperatures. When heated, harmful vapours may be formed.

Skin contact: Prolonged contact may cause redness and irritation. Contains components which may penetrate the skin.

Eye contact: Splashes may irritate.

Ingestion: May cause intoxication, headache, dizziness, stomach pains, convulsions, and in serious cases, unconsciousness, acute kidney failure, breathing and heart failure. Lethal dose for an adult person: approx. 50-100 ml (ethanediol).

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity: The product is not expected to be hazardous to the environment.

### 12.2. Persistence and degradability

Degradability: The degradability of the product has not been stated.

### 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

### 12.4. Mobility in soil

Mobility: No data available.

### 12.5. Results of PBT and vPvB assessment

PBT/vPvB: No information available.

### 12.6. Other adverse effects

Other adverse effects: No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from residues: Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA).

### 14.1. UN number

UN-No: -

### 14.2. UN proper shipping name

Proper Shipping Name: -

### 14.3. Transport hazard class(es)

Class: -

### 14.4. Packing group

PG: -

### 14.5. Environmental hazards

Marine pollutant: -

Environmentally Hazardous -

Substance:

### 14.6. Special precautions for user

Special precautions: None known.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not relevant.

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## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulation: Singapore Standard SS 586: Part 2 : 2014; Globally harmonised system of classification and labelling of chemicals - Singapore's adaptations.  
Singapore Standard SS 586: Part 3 : 2014; Preparation of safety data sheets (SDS).  
Guidelines on prevention and control of chemical hazard.

## SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 6, 9.

The (\*) indicates the changes made with respect to the previous version.

Approved by DHI.



Additional information: Classification according to Singapore Standard SS 586: Part 2 : 2014:  
Calculation method.

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The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.  
[www.dhigroup.com](http://www.dhigroup.com).

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