

MICROSCOPE CLEANING SOLUTION

Date 12.4.2011

Previous date: -

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

MICROSCOPE CLEANING SOLUTION

1.1.2 Product code

FF096 50 ML, FF096 500 ML, FF6390 50 ML, FF6390 500 ML

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

PROC15 - Use as laboratory reagent

PC35 - Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Oy FF-Chemicals Ab

P.O.Box

Teollisuustie 4

Postcode and post office

FI-90830 Haukipudas

Finland

Telephone

+358 (0)8 5563 193

Telefax

+358 (0)8 5563 194

Email

ffc@ff-chemicals.fi

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

Emergency telephone number 112

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Flam. Liq. 2, H225

Eye Irrit. 2, H319

STOT SE 3, H336

67/548/EEC - 1999/45/EC

F, Xi; R11-36-67

2.2 Label elements**1272/2008 (CLP)**

GHS07 - GHS02

Signal word

Danger**Hazard Statements**

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

Precautionary Statements

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233

Keep container tightly closed.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3 Other hazards**

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3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

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Hazardous components**CAS/EC and Reg. number**

67-63-0

Chemical name of the substance

Propan-2-ol

Concentration Classification

40 - 50 %

F; R11;Xi; R36;R67

Flam. Liq. 2; Eye Irrit. 2; STOT SE 3

3.3 Other information

Includes water >50% Ammonium hydroxide < 1%

4. FIRST AID MEASURES**4.1 Description of first aid measures**

Consult a physician after significant exposure. In the case of inhalation of aerosol/mist consult a physician if necessary. Move to fresh air in case of accidental inhalation of vapours or decomposition products. If on clothes, remove clothes.

4.1.2 Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.1.3 Skin contact

Rinse cautiously with water for several minutes. Remove/Take off immediately all contaminated clothing.

4.1.4 Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.1.5 Ingestion

Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause drowsiness or dizziness.

4.3 Indication of immediate medical attention and special treatment needed

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

5. FIREFIGHTING MEASURES

Highly flammable liquid and vapour.

5.1 Extinguishing media**5.1.1 Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.1.2 Extinguishing media which must not be used for safety reasons

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5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or mixture itself, combustion products, resulting gases

5.3 Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

5.4 Specific methods

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6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Eliminate all ignition sources if safe to do so.

6.2 Environmental precautions

Avoid release to the environment.

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- 6.3 Methods and materials for containment and cleaning up**
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
- 6.4 Reference to other sections**
4, 8, 13.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Take measures to prevent the build up of electrostatic charge.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in a well-ventilated place. Keep cool.
- 7.3 Specific end use(s)**
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Threshold limits**
- | | | | |
|---------|--------------|-----------------------------|--------------------------------|
| 67-63-0 | Propan-2-oli | 200 ppm (8 h) | 250 ppm (15 min) |
| | | 500 mg/m ³ (8 h) | 620 mg/m ³ (15 min) |
- 8.1.2 Other information on limit values**
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- 8.1.3 Limit values in other countries**
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- 8.1.4 DNELs**
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- 8.1.5 PNECs**
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- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**
Provide adequate ventilation. Skin should be washed after contact. Remove and wash contaminated clothing before re-use. Ensure that eye flushing systems and safety showers are located close to the working place.
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**
In case of inadequate ventilation wear respiratory protection. respirator with A filter.
- 8.2.2.2 Hand protection**
Protective gloves complying with EN 374.
- 8.2.2.3 Eye/face protection**
Safety glasses with side-shields conforming to EN166
- 8.2.2.4 Skin protection**
Lab coat
- 8.2.3 Environmental exposure controls**
Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**
Liquid, clear, colourless.

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9.1.2	Odour	odourless
9.1.3	Odour threshold	-
9.1.4	pH	3,00
9.1.5	Melting point/freezing point	- 21 °C (50 % propan-2-oli)
9.1.6	Initial boiling point and boiling range	82 °C (propan-2-oli)
9.1.7	Flash point	~ 18 °C (50 % propan-2-oli)
9.1.8	Evaporation rate	2,9 (propan-2-oli; n-butyylasetatti=1)
9.1.9	Flammability (solid, gas)	Highly flammable liquid and vapour.
9.1.10	Explosive properties	
9.1.10.1	Lower explosion limit	2 til-% (propan-2-oli)
9.1.10.2	Upper explosion limit	12 til-% (propan-2-oli)
9.1.11	Vapour pressure	4,3 kPa (20°C, propan-2-oli)
9.1.12	Vapour density	2,07 (propan-2-oli; ilma = 1)
9.1.13	Relative density	785 kg/m ³ (propan-2-oli)
9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	soluble
9.1.15	Partition coefficient: n-octanol/water	logP < 3
9.1.16	Auto-ignition temperature	425 °C (propan-2-oli)
9.1.17	Decomposition temperature	no data available
9.1.18	Viscosity	Propan-2-oli: 2,43 mPas (20°C), 3,1 cSt (20 °C).
9.1.19	Explosive properties	no data available
9.1.20	Oxidising properties	-
9.2	Other information	-

10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
Highly flammable liquid and vapour.
- 10.2 Chemical stability**
The product is chemically stable.
- 10.3 Possibility of hazardous reactions**
No information available.
- 10.4 Conditions to avoid**
Heating can release vapours which can be ignited.
- 10.5 Incompatible materials**
Strong oxidizing agents.
- 10.6 Hazardous decomposition products**
Carbon oxides

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
May cause drowsiness or dizziness.
- 11.1.1 Acute toxicity**
Propan-2-oli:
LD50/oral/rat = 5 045 mg/kg
LD50/dermal/rabbit = 12 800 mg/kg
LC50/inhalation/4h/rat = = 46 000 - 73 000 mg/m³

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- 11.1.2 Irritation and corrosion**
Causes serious eye irritation.
- 11.1.3 Sensitisation**
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- 11.1.4 Subacute, subchronic and prolonged toxicity**
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- 11.1.5 STOT-single exposure**
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- 11.1.6 STOT-repeated exposure**
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- 11.1.7 Aspiration hazard**
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- 11.1.8 Other information on acute toxicity**
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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
- Propan-2-oli:
LC50/48h/golden orfe = (Leuciscus idus - melanotus) = 8 970 mg/l
EC50/48h/daphnia = = 13 300 mg/l
- 12.1.2 Toxicity to other organisms**
- Propan-2-oli:
EC10/18h/bacteria = (Pseudomonas putida) = 5 175 mg/l
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
- Propan-2-oli:
BOD20/ThOD = 78 %; Biodegradable.
- 12.2.2 Chemical degradation**
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- 12.3 Bioaccumulative potential**
Bioaccumulation is unlikely.
- 12.4 Mobility in soil**
soluble in cold water
- 12.5 Results of PBT and vPvB assessment**
-
- 12.6 Other adverse effects**
Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

160506 - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

- 13.1 Waste treatment methods**

14. TRANSPORT INFORMATION

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	Land transport ADR/RID	Sea transport IMDG/IMO	Air transport ICAO/IATA
14.1 UN number	1219	1219	
14.2 UN proper shipping name	ISOPROPANOLI	ISOPROPANOL	
14.3 Transport hazard class(es)	3	3	
14.4 Packing group	II	II	
14.5 Environmental hazards			
Other information			

14.6 Special precautions for users**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****15. REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1.
HTP-arvot 2009.

15.2 Chemical safety assessment

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16. OTHER INFORMATION**16.1 Additions, Deletions, Revisions**

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16.2 Key or legend to abbreviations and acronyms

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16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

16.6 Training advice

Provide adequate information, instruction and training for operators.

16.7 Recommended restrictions

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16.8 Additional information available from:

Oy FF-Chemicals Ab, Tel. +358 8-5563 193

ffc@ff-chemicals.fi

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.