

Trade Name: Polymersolution for Nanoimprint Lithography mr-I 7000 Series

1. Identification of preparation and company

Product identification

Polymersolution for Nanoimprint Lithography mr-I 7000 Series

Identification of manufacturer/address

micro resist technology GmbH

Koepenicker Str. 325

D-12555 Berlin

Tel. +49 - 30 - 6576 2192

Fax +49 - 30 - 6576 2193

2. Composition / Information on ingredients

Organic polymer dissolved in mixture of organic liquids

The product contains the following dangerous component(s):

2.1. 1-Methoxy-2-propyl-acetate

CAS-No. 108-65-6

EINECS-No. 203-603-9

UN-No. 1993

3. Hazards identification

Flammable. Irritating to eyes.

4. First-Aid Measures

After inhalation:

Fresh air, in case of unconsciousness: stable side position for transport

After skin contact:

Wash off with plenty of water and soap.

After eye contact:

Rinse out with plenty of water, consult a doctor

If swallowed:

Drink plenty of water, in case of persistent symptoms consult a doctor.

5. Fire fighting measures

Suitable extinguishing media:

Foam, CO₂, Powder

Extinguishing media to be avoided:

Water

Protective firefighting equipment:

Self-contained breathing apparatus with full facepiece operated in positive pressure mode

6. Accidental release measures

Person-related safety precautions:

Ensure well ventilation, do not inhale aerosols, remove ignition sources.

Environmental protection measures:

Prevent reaching drainage system, holes, cellars, ground or ground water. If needed alarm neighbourhood.

Cleaning measures:

Take up with liquid-binding material. Forward for disposal. Do not flush away with water.

Pay attention to item 8 and 13.

7. Handling and storage

Handling

Ensure well ventilation/exhaustion at workplace.

Storage

Tightly closed in well-ventilated place. Protect from light. Store at room temperature. Keep away from sources of ignition and heat. Protect against electrostatic charges.

Trade Name: Polymersolution for Nanoimprint Lithography mr-I 7000 Series**8. Exposure controls / personal protection***Exposure limits*MAK 50 ml/m³ resp. 270 mg/m³ (max. workplace conc., Germany)*Personal protective equipment*

Breathing protection not required if room is well-ventilated

Hand protection required

Eye protection required

Body protection Protective work clothing

Industrial hygiene Don't drink, eat or smoke. Change contaminated clothing. Wash hands and face after working with substance.

9. Physical and chemical properties

Form	liquide
Colour	Colorless
Odour	sweetish
Boiling point	148 – 151 °C (solvent 2.1.)
Vapor pressure (20 °C)	3.1 hPa (solvent 2.1.)
Density (25 °C)	0.975 - 0.985 g/cm ³
Viscosity (25 °C, D= 1000 s ⁻¹)	4 - 10 mPas
Solubility in water (25 °C)	insoluble
Flash point	48 °C (solvent 2.1.)
Ignition temperature	315 °C (solvent 2.1.)
Explosion limits	1.5 – 10.8 vol-% (solvent 2.1.)

10. Stability and reactivity*Conditions to avoid:*

Sunlight, heating, ignition sources, electro-static charge

Materials to avoid:

Oxidizing agents

Hazardous decomposition products:

Not known

11. Toxicological information*Acute toxicity*

LD50 (oral, rat): 7964 mg/kg (solvent 2.1.)

Further toxicological information

The product should be handled with the usual care for dealing with chemicals.

12. Ecological information

Quantitative ecological data not available.

Avoid release to environment.

Komponente 2.1.:

Pimephales promelas LC 50: 161 mg/l.

Daphnia magna EC 50: 408 mg/l

Komponente 2.2.:

Daphnia magna 24h-EC 50: 4,4 mg/l

Daphnia magna 48h-EC 50: 0,68 mg/l

13. Disposal*Product*

Disposal as halogen-free organic solvent.

EAK-Key: 140503

Packaging

If contaminated like the substance itself

EAK-Key: 150199D1

Not contaminated: Recycling/Household waste.

Dispose in accordance with all applicable federal, state and local environmental regulations.

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14. Transport information

UN-No.: 1866

Land transport: Designation: Resin solution (Methoxy propyl acetate)
GGVE/GGVS: 3 (F1) RID/ADR: 3 (F1) Kemler number: 30
Packaging group III

Maritime transport: Designation: Resin solution (Methoxy propyl acetate)
Packaging group III
IMDG: 3.3/III EMS: 3-07 MFAG: 330

Air transport: Designation: Resin solution (Methoxy propyl acetate)
Packaging group III
IATA-DGR CAO: 3 Packaging instructions: 310
IATA-DGR PAX: 3 Packaging instructions: 309

15. Regulatory information

Germany:

Pack-Kat.: A
LGK: 3A
Hs-Nr.: 29153990 (solvent 2.1.)

(VbF: All invalid since 01-Jan-2003)

EU Classification:

Danger symbol(s): Xi – irritant
R-Phrases: 10-36 Flammable. Irritating to eyes.
S-Phrases: 25 Avoid contact with eyes.

Other national regulations:

Swiss toxic class: 3 (solvent 2.1.)

16. Other information

Replaces version of -
Reason of revision: First issue.

All information in this paper is based on the present state of our knowledge but may vary in certain limits and does not have the meaning of a guarantee of any product features.

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