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.
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 ºC (solvent 2.1.)
Vapor pressure ( 20 ºC ) 3.1 hPa (solvent 2.1.)
Density ( 25 ºC ) 0.975 - 0.985 g/cm³
Viscosity ( 25 ºC, D= 1000 s⁻¹) 4 - 10 mPas
Solubility in water ( 25 ºC ) insoluble
Flash point 48 ºC (solvent 2.1.)
Ignition temperature 315 ºC (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

Maritime transport: Designation: Resin solution (Methoxy propyl acetate)  
Packaging group III

Maritime transport: Designation: Resin solution (Methoxy propyl acetate)  
Packaging group III

Air transport: Designation: Resin solution (Methoxy propyl acetate)  
Packaging group III

Air transport: Designation: Resin solution (Methoxy propyl acetate)  
Packaging group III

#### 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.