Safety Data Sheet

according to 2001/58/EC

Print date : 3.4.2008
Product code : R370000

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation
mr-UVCur06

Use of the substance/preparation
Resist for UV Nano Imprint Lithography

Company/undertaking identification

Company name : micro resist technology GmbH
Street : Koepenicker Str. 325, Haus 211
Place : D-12555 Berlin
Telephone : +49 30 65762192

e-mail : mrt@microresist.de
Internet : www.microresist.de

2. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

<table>
<thead>
<tr>
<th>EC-No.</th>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>231-403-1</td>
<td>7534-94-3</td>
<td>Isobornyl methacrylate</td>
<td>&gt;60 %</td>
<td>XI R36/37/38</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Urethane Acrylate Oligomer</td>
<td>10-30 %</td>
<td>XI R36/38-43</td>
</tr>
</tbody>
</table>

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification
Indications of danger: Irritant
R-phrases:
May cause sensitization by skin contact.
Irritating to eyes, respiratory system and skin.

4. First aid measures

After inhalation
Following inhalation: Provide fresh air. In case of breathing difficulties administer oxygen.

After contact with skin
After contact with skin, wash immediately with plenty of Water and soap.

After contact with eyes
Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

After ingestion
Rinse mouth thoroughly with water. Consult physician.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Carbon dioxide (CO2). Dry extinguishing powder. Foam.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases
In case of fire may form: Carbon monoxide. Carbon dioxide (CO2).
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Special protective equipment for fire-fighters
In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

Additional information
Use water spray/stream to protect personnel and to cool endangered containers.

6. Accidental release measures

Personal precautions

Methods for cleaning up/taking up
Treat the assimilated material according to the section on waste disposal. Clear contaminated area thoroughly. Ventilate affected area.

7. Handling and storage

Handling
Advice on safe handling
In case of open handling equipment with built-in suction must be used. It is recommended to organise all working processes in order to exclude the following: inhalation. Avoid contact with skin and eyes. Avoid exposure - obtain special instructions before use.

Storage
Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions
Protect against: heating. UV-solarization/sunlight.

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Protective and hygiene measures
Wash contaminated clothing prior to re-use. "Wash hands when done working with material; at breaks, lunch, shift changes, etc."

Respiratory protection
Respiratory protection required in case of: Insufficient absorption.

Hand protection
Protect skin by using skin protective cream. Tested protective gloves are to be worn: Single-use gloves.

Eye protection
Suitable eye protection: Tightly sealed safety glasses. In the immediate working surroundings there must be: Emergency spray installed.

Skin protection
Suitable protection of the body: Lab apron.

9. Physical and chemical properties

General information

Physical state: liquid
Colour: colourless clear
Odour: characteristic
Important health, safety and environmental information

Changes in the physical state

Flash point: > 100 °C
Density (at 25 °C): 1.02 g/cm³
Viscosity / dynamic: 13-15 mPa·s (at 25 °C)

10. Stability and reactivity

Conditions to avoid
Light. heating.

Materials to avoid
Reducing agents, Oxidizing agents, peroxide.

Hazardous decomposition products
Carbon monoxide. Carbon dioxide (CO2).

Additional information
Hazardous polymerization.

11. Toxicological information

Sensitising effects

Additional information on tests
Toxicological data are not available.

12. Ecological information

Further information
product has not been tested. Do not allow uncontrolled leakage of product into the environment.

13. Disposal considerations

Advice on disposal
Waste disposal according to official state regulations.

14. Transport information

Further Information
Not a hazardous material with respect to these transportation regulations.

15. Regulatory information

Labelling
Danger symbols:

Xi - Irritant

Hazardous component(s) to be indicated on label
Urethane Acrylate Oligomer
R phrases
   43  May cause sensitization by skin contact.
   36/37/38 Irritating to eyes, respiratory system and skin.

S phrases
   24  Avoid contact with skin.
   26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   37  Wear suitable gloves.

National regulations
   Water contaminating class : 3 - highly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3
   43  May cause sensitization by skin contact.
   36/38 Irritating to eyes and skin.
   36/37/38 Irritating to eyes, respiratory system and skin.

Other data
   The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.
   The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)