

Safety Data Sheet

according to 2001/58/EC

mr-UVCur06

Print date : 3.4.2008

Product code : R370000

Page 1 of 4

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 : Koeppenicker Str. 325, Haus 211
Place : D-12555 Berlin

Telephone : +49 30 65762192

Telefax : +49 30 65762193

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

2. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-403-1	7534-94-3	Isobornyl methacrylate	>60 %	Xi R36/37/38
		Urethane Acrylate Oligomer	10-30 %	Xi R36/38-43

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 arising from substance or preparation itself, combustion products, resulting gases

In case of fire may form: Carbon monoxide. Carbon dioxide (CO₂).

Safety Data Sheet

according to 2001/58/EC

mr-UVCur06

Print date : 3.4.2008

Product code : R370000

Page 2 of 4

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

Wear respiratory protection when in the presence of vapour, dust, and aerosols. Rubber boots. Rubber gloves. Wear eye/face protection.

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

Safety Data Sheet

according to 2001/58/EC

mr-UVCur06

Print date : 3.4.2008

Product code : R370000

Page 3 of 4

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point :	> 100 °C
Density (at 25 °C) :	1.02 g/cm ³
Viscosity / dynamic : (at 25 °C)	13-15 mPa·s

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

sensitizing. Hazard identification: Allergic reactions.

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



Xi - Irritant

Hazardous component(s) to be indicated on label

Urethane Acrylate Oligomer

Safety Data Sheet

according to 2001/58/EC

mr-UVCur06

Print date : 3.4.2008

Product code : R370000

Page 4 of 4

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.)