

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

OrmoPrime08

Print date : 11.6.2009

Product code : R41PRI08

Page 1 of 4

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

Identification of the substance or preparation

OrmoPrime08

Use of the substance/preparation

Chemical Speciality

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

Telefax : +49 30 65762193

2. Hazards identification

Classification

Indications of danger : Irritant
 R-phrases :
 Irritating to eyes.
 May cause sensitization by skin contact.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
217-164-6	1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	5 - 10 %	Xi R38-41-43-52-53
231-595-7		hydrochloric acid <5 %	1 - 5 %	C, Xi R34-37

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

4. First aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with generous amount of water. Change contaminated clothing.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.

5. Fire-fighting measures

Suitable extinguishing media

Extinguishing materials should be selected according to the surrounding area.

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

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

OrmoPrime08

Print date : 11.6.2009

Product code : R41PRI08

Page 2 of 4

The product itself is not combustible. Can be released in case of fire: Nitrogen oxides (NOx).

Additional information

Contaminated fire-fighting water must be collected separately.

6. Accidental release measures**Personal precautions**

The following must be prevented: inhalation. skin contact. Eye contact.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed containers for disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage**Handling****Storage****Requirements for storage rooms and vessels**

Keep container tightly closed. storage temperature: of °C: 18 up to °C: 25.

Ensure adequate ventilation of the storage area.

8. Exposure controls/personal protection**Exposure limit values****Exposure controls****Protective and hygiene measures**

When using do not eat, drink or smoke. Protect skin by using skin protective cream. Wash hands before breaks and at the end of work. Immediately remove any wetted clothing, shoes or stockings.

Respiratory protection

Respiratory protection required in case of: aerosol or mist generation.

Hand protection

Tested protective gloves are to be worn: Single-use gloves.

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Breakthrough times and swelling characteristics of the material must be taken into consideration.

Before using check leak tightness / impermeability.

Eye protection

Suitable eye protection: Tightly sealed safety glasses.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

9. Physical and chemical properties**General information**

Physical state :	liquid
Colour :	clear
Odour :	odourless

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

OrmoPrime08

Print date : 11.6.2009

Product code : R41PRI08

Page 3 of 4

Important health, safety and environmental information

Test method

pH-Value (at 20 °C) :

9-10

Changes in the physical state

Melting point :

not determined

Boiling point :

not determined

Flash point :

not determined

Lower explosion limits :

not determined

Upper explosion limits :

not determined

Density (at 20 °C) :

1.0132 g/cm³

Water solubility :

easily soluble.

Viscosity / dynamic :
(at 25 °C)

1-15 mPa·s

Other information

Ignition temperature :

not determined

10. Stability and reactivity**Conditions to avoid**

heat.

Materials to avoid

Oxidizing agents, strong.

Hazardous decomposition products

Can be released in case of fire: Nitrogen oxides (NOx).

11. Toxicological information**Acute toxicity**

Acute toxicity, inhalant LC50: 3124 ppm (V) /1h species: Rat. (hydrochloric acid <5 %) (Data apply to the technical substance.)

Acute toxicity, oral LD50: 7684 mg/kg species: Rat. (N-(3-(trimethoxysilyl)propyl)ethylenediamine)

The statement is derived from the properties of the components.

Preparation not tested.

12. Ecological information**Ecotoxicity**

No data available

Further information

Do not allow uncontrolled leakage of product into the environment.

13. Disposal considerations**Advice on disposal**

Appropriate disposal / Product: Remove according to the regulations.

Contaminated packaging: Cleaned containers may be recycled.

14. Transport information**Further Information**

Not a hazardous material with respect to these transportation regulations.

15. Regulatory information

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

OrmoPrime08

Print date : 11.6.2009

Product code : R41PRI08

Page 4 of 4

Labelling

Danger symbols :

Xi - Irritant



Xi - Irritant

Hazardous component(s) to be indicated on label

N-(3-(trimethoxysilyl)propyl)ethylenediamine

R phrases

- 36 Irritating to eyes.
43 May cause sensitization by skin contact.

S phrases

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37 Wear suitable gloves.
24/25 Avoid contact with skin and eyes.

National regulatory information

Employment restrictions :

Observe employment restrictions for young people.

Water contaminating class (D) :

1 - slightly water contaminating

16. Other information**Full text of R-phrases referred to under sections 2 and 3**

- 34 Causes burns.
36 Irritating to eyes.
37 Irritating to respiratory system.
38 Irritating to skin.
41 Risk of serious damage to eyes.
43 May cause sensitization by skin contact.
52 Harmful to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.

Further Information

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.)