

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

495 PMMA Series Resists in Anisole

Print date : 10.6.2009

Product code : MM130XXX

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

Identification of the substance or preparation

495 PMMA Series Resists in Anisole

Use of the substance/preparation

Organic Polymer Solution

Company/undertaking identification

Company name :	MicroChem Corp.	
Street :	90 Oak Street	
Place :	USA-MA 02464-1418 Newton	
Post-office box :	PO Box 426	
	USA-MA 02464-0002 Newton	
Telephone :	+1 617 965 5511	Telefax : +1 617 965 5818
e-mail :	productsafety@microchem.com	
Internet :	www.microchem.com	
Emergency telephone :	Chemtrek (International): +1 703 527 3887	

2. Hazards identification

Classification

Indications of danger : Irritant
 R-phrases :
 Flammable.
 Irritating to eyes, respiratory system and skin.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
202-876-1	100-66-3	Anisole	84 - 99 %	R10

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

4. First aid measures

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. If victim is at risk of losing consciousness, position and transport on their side. In case of irritation of the respiratory tract seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

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. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Immediately get medical attention.

Advice to doctor

Treat symptomatically.

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5. Fire-fighting measures

Suitable extinguishing mediaCarbon dioxide (CO₂). Dry extinguishing powder. Foam.**Extinguishing media which must not be used for safety reasons**

High power water jet.

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

In case of fire and/or explosion do not breathe fumes.

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. Contaminated fire-fighting water must be collected separately.

6. Accidental release measures

Personal precautions

Remove all sources of ignition. The following must be prevented: inhalation. skin contact. Eye contact. Provide adequate ventilation.

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**Advice on safe handling**

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Storage**Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place.

Further information on storage conditions

Protect against: heat.

Storageclass (VCI) :

3A

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. After work, wash hands and face. Immediately remove any wetted clothing, shoes or stockings.

Respiratory protection

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If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. Respiratory protection required in case of: aerosol or mist generation. Filter respirator (full mask or mouth-piece) with filter: A

Hand protection

Tested protective gloves are to be worn: Single-use gloves.
German Industry Norms (DIN) / European Norms (EN): EN 374

Duration of wearing with permanent contact:

Suitable material: FKM (fluororubber).

Thickness of glove material: 0.7 mm

penetration time (maximum wearing period): > 480 min

Recommended protective gloves brand: KCL 890 Vitoject, Manufacturer: KCL GmbH, D-36124 Eichenzell, Source of supply: www.kcl.de

Duration of wearing with occasional contact (splashes):

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

penetration time (maximum wearing period): > 30 min

Recommended protective gloves brand: KCL 730 Camatril-Velours, Manufacturer: KCL GmbH, D-36124 Eichenzell, Source of supply: www.kcl.de

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

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 : colourless, clear
Odour : hydrocarbons, aromatic.

Important health, safety and environmental information

Changes in the physical state

	Test method
Boiling point :	154 °C
Flash point :	44 °C TCC
Density (at 25 °C) :	0.995-1.019 g/cm ³
Water solubility :	slightly soluble

Other information

Ignition temperature : 475 °C

10. Stability and reactivity

Conditions to avoid

UV-radiation/sunlight. heat.

Materials to avoid

Acid, concentrated. Alkalis (alkalis), concentrated. Oxidizing agents, strong. Air.

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Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Phenol.

11. Toxicological information

Acute toxicity

Acute toxicity, oral LD50: 3700 mg/kg species: Rat.

The statement is derived from the properties of the components.

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

Appropriate disposal / Product: Remove according to the regulations.

Contaminated packaging: Cleaned containers may be recycled.

14. Transport information

Land transport (ADR/RID)

UN number :	1866
ADR/RID class :	3
Classification code :	F1
Warning plate	
Hazard-no. :	30
Hazard label :	3
ADR/RID packing group :	III
Limited quantity :	LQ7

Description of the goods

Resin solution

Other applicable information (land transport)

Special provisions: 640E

Excepted Quantity: E1

Transport category: 3

Tunnel restriction code: D/E

Inland waterways transport

Other applicable information (inland waterways transport)

Not classified for this carrier.

Marine transport

UN number :	1866
IMDG code :	3
Marine pollutant :	NO
Hazard label :	3
IMDG packing group :	III
EmS :	F-E, S-E
Limited quantity :	5 L

Description of the goods

Resin solution

Other applicable information (marine transport)

Special provisions: 223, 944, 955

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Air transport

UN/ID number :	1866	
ICAO/IATA-DGR :	3	
Hazard label :	3	
ICAO packing group :	III	
Limited quantity Passenger :	10 L	
IATA-packing instructions - Passenger :		309
IATA-max. quantity - Passenger :		60 L
IATA-packing instructions - Cargo :		310
IATA-max. quantity - Cargo :		220 L

Description of the goods

Resin solution

Other applicable information (air transport)

Excepted Quantity: E1
 Passenger-LQ: Y309
 Cargo-Maximum: 220 L

15. Regulatory information

Labelling

Danger symbols : Xi - Irritant



Xi - Irritant

R phrases

10 Flammable.
 36/37/38 Irritating to eyes, respiratory system and skin.

S phrases

23 Do not breathe vapour .
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 37/39 Wear suitable gloves and eye/face protection.

EU regulatory information

1999/13/EC (VOC) : This chemical is a VOC according to 99/13/EC. Volatile organic compounds (VOC) in percentage by weight: 84-99

National regulatory information

Employment restrictions : Observe employment restrictions for young people.
 Water contaminating class (D) : 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

10 Flammable.
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Further Information

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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.)