

Chemical name:-
**Propylene glycol monomethyl
ether acetate**

Name of the user:- Dr. Akanksha Singh
Faculty in charge:- Prof. V. Ramgopal Rao
Prof. Saurabh Lodha

Precautions:

Precautions for safe handling-

- Avoid contact with skin and eyes.
- Avoid formation of dust and aerosols.
- Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities-

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

Operating procedure for chemical usage:

Detailed procedure of usage: Synthesis of OSTE polymeric material having advance properties as compare to SU-8 & PDMS.

- Thorough mixing (Physical & Sonication) of Allyl, Epoxy, Thiol & Photoinitiator and putting in the oven at 75° for 60 min.
- Irradiation of OSTE prepolymer with a table top UV-lamp (flood exposure).
- Pre-cured samples immediately put in the oven at 75° for 4 hr to cure completely.
- Propylene glycol monomethyl ether acetate will be use in the last step to make it thinner.

Equipment Required: Oven, Mask aligner (Flood exposure), Weighing machine, Stop watch, Sonicator.

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Disposal

Waste treatment methods

Product

- Non-recyclable solutions.
- Dissolve or mix **the** material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

- Dispose of as unused product.