

Chemical name:-

Pentaerythritol tetrakis(3-mercaptopropionate)

Name of the user:- Dr. Akanksha Singh

Faculty in charge:- Prof. V. Ramgopal Rao

10th December 2014

Precautions:

Precautions for safe handling-

- No specific safety phrase has been found applicable for this product.
- Avoid contact with skin and eyes.
- Avoid inhalation of vapor or mist.

Conditions for safe storage, including any incompatibilities-

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

Operating procedure for chemical usage:

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

To prepare OSTE several steps are involve:

- 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.

- **Equipment Required:** Oven, Mask aligner (Flood exposure), Weighing machine, Stop watch, Sonicator.
- **Users:** Akanksha Singh: asingh@iitb.ac.in Mob: 8879268717

Disposal

Methods and materials for containment and cleaning up-

- Soak up with inert absorbent material and dispose of as hazardous waste.
- Keep in suitable, closed containers for disposal.