

Chemical name:-
Allyl glycidyl ether

Name of the user:- Dr. Akanksha Singh

Faculty in charge:- Prof. V. Ramgopal Rao

10th December 2014

Precautions:

Precautions for safe handling-

- Avoid contact with skin and eyes.
- Avoid inhalation of vapour or mist.
- Keep away from sources of ignition - No smoking.
- Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities-

- Store in cool place.
- Keep container tightly closed in a dry and well-ventilated place.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Non-recyclable solutions.

Contaminated packaging

Dispose of as unused product.