Chemical name:-

Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide

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 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: 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

- 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.