

Standard Operating Procedure

for work with *nanoparticles* - Compression Molding

PI: Dr. Jitendra Sarjeras Tate	Building(s): Roy F. Mitte
PI Signature: <i>[Signature]</i>	Room Number(s): 1218
Date: 5/30/18	SOP Revision Date: 5/30/18

Work involves a Particularly Hazardous Substance (PHS)?

Carcinogen Reproductive Toxin High Acute Toxicity

Air Reactive/Pyrophoric Water Reactive Explosive/Unstable

Prior Approval: This procedure is considered hazardous enough that prior approval is needed from the Principal Investigator: Y N

Designated Work Area: RFM 1218

1. Hazard Identification

a. Preparation and Use:

Use of Personal Protection Equipment while handling Polymer resins, curing agents and Nano-particles.

Note: If identified as a process, provide additional detailed procedural steps for the use of each hazardous chemical in Section 5, below.

b. Potential Hazards and Risk:

Skin contact, Spills and eye splash.

2. Hazard Control

a. Selection and Purchasing:

Dr. Tate only may purchase potentially hazardous Nano-materials.

b. Engineering Controls:

Fume hood Biosafety cabinet Glove box Vented gas cabinet

Other (List below: include controls such as pressure relief valves, intrinsically safe hot plates, auto shut-offs):

Used when working with dry Nano-particles.

c. Required Personal Protective Equipment (PPE): List any specific PPE required for this chemical/procedure.

Safety Glasses Face shield Lab Coat (type)

Chemical apron Gloves (type):

Chemical Splash Goggles Respirator (type): Half face and Full face respirator, only when handling dry Nano-particles in Nanocontainment room.

Other:

d. Administrative and Work Practice Controls: *List any specific work practices needed to perform this procedure (e.g., cannot be performed alone, must notify other staff members before beginning, etc.).*

e. Storage and Transportation:

3. Emergencies, Spill Procedures, and Exposures/Unintended Contact

4. **Waste:** *How will any waste that is produced be properly disposed.*

5. **Details of Process:** *A journal article or other document describing the process can be attached.*

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