

Nanomaterial Procedure Checklist

Spokesperson: _____ Proposal #: _____

Author: _____ Date: _____

Sample Holder Description: _____

Nanomaterial Composition: _____

Size: _____ Shape: _____ Quantity: _____

Risk Assessment: Describe any known hazards of the nanomaterial or associated macro-sized material (*e.g. flammability, corrosivity, reactivity/explosion, acute toxicity, or carcinogenicity*).

Check one: Dry powder _____ Liquid Suspension _____

Additional Procedural Information:

Preparation

1. Complete ES&H Course 161: Nanomaterial Laboratory Safety
2. Post Nanomaterial signage, provided by laboratory manager, at workstation.

Perform Work

3. Wear proper PPE - nitrile gloves and safety glasses.
4. Dry Powders: Work within HEPA filtered fume hood or chamber over absorbent bench paper or alternative liner (requires prior approval).
5. Liquid Suspensions: Work over absorbent bench paper or alternative liner (requires prior approval).

Beamline Transport

6. Transport sample to beamline in sealed secondary container – bottle, jar, or plastic bag.
7. Label outside of secondary container with nanomaterial composition and hazards.
8. Samples should be sealed at the beamline.

Clean Up

9. Wipe down work surface with paper towels and aqueous soap solution.

Waste Disposal

10. Collect all nanomaterial contaminated waste (bench paper, kimwipes, tapes, etc.) in appropriately sized container – bottle, jar, or plastic bag.
11. Fill out hazardous waste label and affix to container. Write “Nanomaterial” and any other relevant hazards on the hazard line.
12. Deposit waste in Nanomaterial bin of laboratory’s hazardous waste cabinet.

Emergency and Spill Procedures

Powder spills within an exhaust hood can be cleaned by using paper towels and an aqueous soap solution. Liquid spills within a hood can be cleaned with paper towels and then wiped with an aqueous soap solution. For spills outside of an exhaust hood, control access to the area and immediately notify the laboratory manager.

SLAC Approvals

Name: _____

Date: _____

Name: _____

Date: _____

Name: _____

Date: _____

Name: _____

Date: _____