

# MATERIAL SAFETY DATA SHEET

Revision date 12/04/2013

Mono Nano Silver Powder

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Mono nano silver powder

**Manufacturer/Supplier:**

Nanostructured & Amorphous Materials, Inc.

16840 Clay Road, Suite #113

Houston, TX 77084, USA

## SECTION 2 INFORMATION ON INGREDIENTS

**Product name:** Mono nano silver powder

Ingredient	Concentration
Silver	25%
PVP	74.8%
Water	0.2%

## SECTION 3 HAZARDS IDENTIFICATION

**Hazards Identification:** This substance is considered to be non-hazardous for transport.

**Emergency Overview:** May causes irritation to eye, skin and respiratory system.

## SECTION 4 FIRST-AID MEASURES

**Skin Exposure:** In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists call a physician.

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, give oxygen.

**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

## SECTION 5 FIRE FLGHTING MEASURES

### **Extinguishing Media:**

Suitable: Water spray, Dry chemical powder, Carbon dioxide or appropriate foam.

### **Firefighting:**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### **Procedures of Personal Precautions:**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation.

### **Methods for cleaning up:**

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid inhalation. Ventilate area and wash spill site material pickup is complete.

## SECTION 7 HANDLING AND STORAGE

### **Handling:**

Wear appropriate protective clothing and chemical safety gloves. Avoid inhalation. Avoid contact with eyes, skin. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: strong acids, strong bases, strong oxidizing agents and foods. No smoking at working site.

### **Storage:**

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong acids, strong bases, strong oxidizing agents and foods.

## SECTION 8 EXPOSURE CONTROL/PPE

**Engineering Controls:** Mechanical exhaust required. Safety shower and eye bath.

### **Personal Protective Equipment:**

**Respiratory:** Government approved respirator. **Eye:**

Wear chemical safety goggles.

**Clothing:** Wear appropriate protective clothing.

**Hand:** Wear compatible protective gloves.

**Other protects:** No smoking, drinking and eating at working site. Wash thoroughly after handling.

## SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

**Appearance and odor:** Black powder, weak odor

**Flashing point:** > 100°C

**Solubility:** Miscible in water

## SECTION 10 STABILITY AND REACTIVITY

**Stability:** Stable under normal temperature and pressures.

**Materials to Avoid:** Strong acids, strong bases, strong oxidizing agents.

**Hazardous Decomposition Products:** NONE

## SECTION 11 TOXICOLOGICAL INFORMATION

### Toxicity Data:

Oral	Rat	LD50	8570µl/kg.
Skin	Rabbit	LD50	13300µl/kg.

Irritation Data: May causes irritation to eye. Skin and respiratory system.

## SECTION 12 ECOLOGICAL INFORMATION

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

### Appropriate Method of Disposal substance:

Spent or discarded material is not belong to hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## SECTION 14 TRANSPORT INFORMATION

### DOT

Non-hazardous for transport: This substance is considered to be non-hazardous for transport.

**ADR/RID Class:** None

Non-Hazardous for transport: This substance is considered to be non-hazardous for transport.

### IATA

Non-Hazardous for Air transport: Non-hazardous for air transport.

### IMO

Non-Hazardous for Sea-Transport: Non-hazardous for sea transport.

**UN Number:** None

## SECTION 15 REGULATORY INFORMATION

**EU Classification and Labeling Information:**

This material is not classified in the Annex I of Directive 67/58/EEC.

## SECTION 16 OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.