

Material Safety Data Sheet

*Prod. No. 40- Pt and Pd coated gold nanorods
Issue Date 1/1/09*

Section 1: Product and Company Identification

Product Name: Nanopartz™ Pt and Pd coated gold nanorods

Formula: NA - Proprietary mixture

Company Name

Nanopartz™ A Division of Concurrent Analytical Inc. 420 Chipeta Way Su 2250, Salt Lake City UT 84108

Domestic Phone 866-721-7796 (M-F 8:00AM to 5:00PM MST)

International Phone (01) (307) 866-721-7796

Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2 Ingredients: Platinum and palladium coated gold colloids

Section 3 Physical and Chemical Characteristics:

Appearance: Liquid

Section 4 Fire and Explosion Hazard Data:

Flash Point (method used): Not flammable

Flammable Limits: Lower: NA, Upper: NA

Autoignition Temperature: NA

Extinguishing Methods: Use extinguishing media appropriate to surrounding fire conditions.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 5 Health Hazard Information:

Routes of Entry: inhalation, ingestion and skin absorption.

Effects of Overexposure: Exposure to Gold Compounds may be harmful. Can cause contact dermatitis. The toxicological properties have not been thoroughly investigated.

Section 6 Emergency and First Aid Procedures:

Eye Contact: Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin Contact: Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Ingestion: Wash out mouth with water, provided person is conscious. Call a physician.

Inhalation:

Remove to fresh air. If breathing becomes difficult, call a physician.

Section 7 Reactivity Data:

Stability: Stable

Hazardous Polymerization: Will not occur.

Section 8 Special Protection Information:

Respiratory Protection: NIOSH/MSHA - approved respirator.

Ventilation: Mechanical exhaust required.

Protective Gloves: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Section 9 Spill/Leak Procedures:

Steps to Be Taken in case Material is Released or Spilled:

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Absorb on sand or vermiculite and place in closed containers for disposal.

Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Methods:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all local, state and Federal laws.

Section 10 Special Precautions:

Precautions to Be Taken in Handling and Storing:

Avoid contact and inhalation.

NA= Not applicable