

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Gold nanoparticles

Product Numbers : A, CC, AC, 10, 11, 12

Brand : Nanopartz Inc.

Supplier : Nanopartz Inc.  
146 Barberry Pl.  
Loveland CO 80537  
USA

Telephone : +1 844-334-5555  
Fax : +1 866-811-6266

Emergency Phone # (For both supplier and manufacturer) : +1 844-334-5555

Preparation Information : Nanopartz Inc.

## 2. HAZARDS

### IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

No known OSHA hazards

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

#### HMIS Classification

Health hazard: 0

Flammability: 0

Physical hazards: 0

#### NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

#### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : AU NP, Gold Colloid

Formula : Au

Molecular Weight : 196.97 g/mol

No ingredients are hazardous according to OSHA criteria.

#### 4. FIRST AID MEASURES

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. **In case of skin contact**  
Wash off with soap and plenty of water.

##### **In case of eye contact**

Flush eyes with water as a precaution.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### 5. FIREFIGHTING MEASURES

##### **Conditions of flammability**

Not flammable or combustible.

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

##### **Hazardous combustion products**

None.

#### 6. ACCIDENTAL RELEASE MEASURES

##### **Personal precautions**

Avoid breathing vapors, mist or gas.

##### **Environmental precautions**

No special environmental precautions required.

##### **Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

##### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature 2-8 degC.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

##### **Personal protective equipment**

###### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

###### **Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

###### **Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

General industrial hygiene practice.

**Appearance**

Form	liquid
Colour	no data available

**Safety data**

pH		5-9
Melting point/freezing point		0 degC
Boiling point		100 degC
Flash point		no data available
Ignition temperature		none
Autoignition temperature		no data available
Lower explosion limit		no data available
Upper explosion limit		no data available
Vapour pressure		no data available
Density	1g/cm <sup>3</sup>	
Water solubility		no data available
Relative vapour density		no data available
Odour		no data available
Odour Threshold		no data available
Evaporation Rate		no data available

**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

no data available

**Hazardous decomposition products**

None

**11. TOXICOLOGICAL****INFORMATION Acute toxicity****Oral LD50**

no data available

**Inhalation LC50**

no data available

**Dermal LD50**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

Eyes: no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

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**Synergistic effects**

no data available

**Additional Information**

RTECS: Not available

**12. ECOLOGICAL****INFORMATION Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of unused product.

**14. TRANSPORT  
INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY  
INFORMATION****OSHA Hazards**

No known OSHA hazards

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.