

Version 1.0

According to regulation EC 1272/2008

## ALLOYED GOLD-SILVER NANOPARTICLES

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifiers

Product name Alloyed Gold-Silver Nanoparticles

CAS No. ----

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Research and development use only

#### 1.3 Details of the supplier of the safety data sheet

Company Nanovex Biotechnologies S. L.  
Ed. CEEI  
Parque Tecnológico de Asturias  
Llanera 33428 (Asturias) Spain  
Phone (+34) 985 980 098  
Email info@nanovexbiotech.com

#### 1.4 Emergency telephone number

Emergency phone (+34) 704100087  
Institute of Toxicology (+34) 915620420

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

#### 3.2 Mixtures

This product contains alloyed gold silver nanoparticles

Gold	CAS	7440-57-5
	NºCE	231-165-9
Silver	CAS	7440-22-4
	NºCE	231-131-3

#### **SECTION 4: First aid measures**

##### **4.1 Description of first aid measures**

General notes	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Remove to fresh air. If breathing becomes difficult, call a physician.
Following skin contact	Wash the skin with copious amounts of water. Consult a physician.
Following eye contact	Remove contacts if presents. Rinse out with plenty of water with the eyelid held wide open for at least 15 minutes. Call a physician.
Following ingestion	If swallowed and persons is conscious was mouth with water. Call a physician.
Self-protection of the first aider	No data available

##### **4.2 Most important symptoms and effects, both acute and delayed**

No data available

##### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

#### **SECTION 5: Firefighting measures**

##### **5.1 Extinguishing media**

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

##### **5.2 Special hazards arising from the substance or mixture**

May form toxic fumes under fire conditions.

##### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **SECTION 6: Accidental release measures**

##### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing, chemical resistant gloves and chemical safety glasses.

##### **6.2 Environmental precautions**

No special environmental precautions required.

##### **6.3 Methods and material for containment and cleaning up**

Absorb spillage on an appropriate material and place in closed containers for disposal according to local regulations. Ventilate the area and wash it with copious amount of water.

##### **6.4 Reference to other sections**

No data available

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid eye and skin contact. Wear laboratory coat, gloves and protective glasses.

**7.2 Conditions for safe storage, including any incompatibilities**

Recommended storage between 2-8 °C. DO NOT FREEZE. Keep container tightly closed and away from light.

**7.3 Specific end use**

Research and development use only.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

No data available

**8.2 Exposure controls**

No data available

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practise.

**Personal Protection**

Handle in accordance with good industrial hygiene and safety practise.

**Eye/face protection**

Wear chemical safety glasses.

**Skin protection**

Wear chemical resistant gloves

**Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance	Liquid
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour Density	No data available

Relative density	No data available
Water solubility	soluble
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

**9.2 Other information**

**SECTION 10: Stability and Reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Summary of evaluation of the CMR properties	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available



**SECTION 16: Other information**

**Date of creation:** 12/2016

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