

SAFETY DATA SHEET

Version: 1.2
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Section 1 - Product and Company Information

1.1 Product identifiers

Product Name 5 nm 1-Mercapto (triethylene glycol) methyl ether functionalized gold nanoparticles
Product Number 3012-80MG

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

Identified uses

Relevant identified uses

Laboratory chemicals

Uses advised against

Not for drug use

1.3 Details of the supplier of the safety data sheet

Company: Nanoprobes
Address: 95 Horseblock Road, Unit 1
Yaphank, NY 11980
United States
Technical Phone: 877-447-6266, +1 (631) 205-9490
Fax: +1 (631) 205-9493
Emergency Phone: +1 (631) 205-9490
Web Site: www.nanoprobes.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The substance is not classified according to the CLP regulation. The material should be treated with caution

2.2 GHS Label elements, including precautionary statements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]
No information found

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No information found

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name: 5 nm 1-MERCAPTO-(TRIETHYLENE GLYCOL)METHYL ETHER
FUNCTIONALIZED GOLD NANOPARTICLES

Ingredient Name	CAS #	Percent
5 nm 1-MERCAPTO (TRIETHYLENE GLYCOL) METHYL ETHER FUNCTIONALIZED GOLD NANOPARTICLES	N/A	100%

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Oral exposure

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

Inhalation exposure

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

Dermal exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

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.

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

5. FIRE FIGHTING MEASURES

5.1 Flash point

N/A

5.2 Autoignition temp

N/A

5.3 Flammability

N/A

5.4 Extinguishing media

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

5.5 Special hazards arising from the substance or mixture

No data available

5.6 Firefighting

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

Specific Hazard(s): Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Suitable: Keep closed.

Recommended long term storage temperature: -20°C. After dissolving, store at 2 - 8°C.

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

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION CONTROL PARAMETERS

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Engineering controls

Ensure adequate ventilation, especially in confined areas

8.3 Exposure controls

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

Impervious gloves.

Eye protection

Safety glasses with side-shields.

Skin and body protection

Lightweight protective clothing.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

8.4 Environmental exposure controls

Prevent product from entering drains

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

9.1 Appearance Physical State: Black Solid

9.2 Information on basic physical and chemical properties

Property	Value at Temperature or Pressure
pH	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Relative Density	N/A
Odor Threshold	N/A
Volatile %	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A

Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	dissolve in chloroform, 90 % ethanol, acetone, ethyl acetate, or toluene

N/A = not available

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

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, Acids and Thiols.

10.6 Hazardous decomposition products

Hazardous Decomposition Products: Nature of decomposition products not known.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: 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 data available

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

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information repeated dose toxicity

No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. Disposal Considerations

13.1 Waste treatment methods

Product

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

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

15. Regulatory Information

SARA 302 Components

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

SARA 313 Components

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

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know Components

No components are subject to the New Jersey Right to Know Act.

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.

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Nanoprobes Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.