

**1. Chemical and Company Identification**

Product Name: Methyl (methoxy) Gold Nanoparticles

Product Use: Laboratory chemical

Manufacturer/Supplier: Cytodiagnostics Inc., Cytodiagnostics Inc., 5867 South Garnett Road, Tulsa, Oklahoma 74146 USA

Phone: (866) 344-3954

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**2. Hazards Identification****Classification of the substance or mixture:**

Not a hazardous substance or mixture

**GHS Label Elements and Precautionary Statements:**

Not a hazardous substance or mixture

**Hazards not otherwise classified:**

None

**3. Composition/Information on Ingredients**

**This product contains:** Methyl-PEG-thiol coated gold nanoparticles in water.

**Components:**

**Component 1:** Water, >99% (w/v), CAS 7732-18-5

**Component 2:** Gold, 0.25% (w/v), CAS 7440-57-5

**Component 3:** Methyl-PEG-thiol, <0.05% (w/v)

**4. First Aid Measures**

**In case of skin contact:** In case of contact with skin, immediately remove contaminated clothing and wash extensively with soap and water and seek medical advice if symptoms occur.

**In case of ingestion:** If swallowed and person is conscious wash mouth with water, seek medical advice immediately.

**In case of eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If case of inhalation:** In case of accident by inhalation, remove to fresh air. If breathing becomes difficult seek medical advice. If not breathing, give artificial respiration.

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

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

**Immediate medical attention and special treatment needed:**

No data available

**5. Fire Fighting Measures****Suitable extinguishing media:**

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

**Specific hazards arising from the substance or mixture:**

Sodium oxides, Hydrogen chloride gas, Nitrogen oxides, Carbon oxides

**Special protective equipment and precautions for fire-fighters:**

Wear self-contained breathing apparatus if necessary.

**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid aerosols or dust formation. Avoid breathing vapours, mist or gas.

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

Keep in a suitable closed container for disposal.

Do not allow product to enter drains. For disposal see section 13.

**7. Handling and Storage****Precautions for safe handling:**

Avoid formation of aerosols and dust.

Provide adequate exhaust ventilation at places where dust and aerosols may form.

**Conditions for safe storage:**

Keep container tightly closed in a dry and well-ventilated place. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 4-25°C

Do not freeze.

**8. Exposure Controls/Personal Protection**

**Appropriate engineering controls:** Standard industrial hygiene practice.

**Body protection:** The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**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.

**Respiratory protection:** Respiratory protection not required. In case of insufficient ventilation or for nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

**9. Physical and Chemical Properties**

Appearance

Physical state: liquid

Color: dark red to brown opaque, depending on core size of particles

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|   |                   |
|---|-------------------|
| Odour                                   | Odourless         |
| Odour threshold                         | no data available |
| pH                                      | 5-7               |
| Melting Point/Freezing point            | no data available |
| Initial boiling point/boiling range     | no data available |
| Flash point                             | no data available |
| Evaporation rate                        | no data available |
| Flammability (solid; gas)               | no data available |
| Lower flammable/explosive limit         | no data available |
| Upper flammable/explosive limit         | no data available |
| Vapour pressure                         | no data available |
| Vapour density                          | no data available |
| Relative density                        | no data available |
| Solubility                              | no data available |
| Partition coefficient – n-octanol/water | no data available |
| Auto-ignition temperature               | no data available |
| Decomposition temperature               | no data available |
| Viscosity                               | no data available |

**10. Stability and Reactivity****Reactivity:** No data available**Chemical stability:** Stable under recommended storage conditions**Possibility of hazardous reactions:** no data available**Conditions to avoid:** Temperatures below 0°C**Materials to avoid:** Oxidizing agents, strong acids**Hazardous decomposition products:** None under normal use

In the event of fire: see section 5

**11. Toxicological Information****Acute Toxicity****Oral LD50:** No data available**Inhalation LD50:** No data available**Dermal LD50:** No data available**Other information on acute toxicity:** No data available**Skin:** No data available - May be harmful in contact with skin.**Ingestion:** No data available - May be harmful if ingested.**Eyes:** No data available - May be harmful in contact with eyes.**Inhalation:** No data available - May be harmful if inhaled.**Germ Cell Mutagenicity:** No data available

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**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 probable, possible or confirmed human carcinogen by ACGIH.

**12. Ecological Information**

No data available

**13. Disposal Considerations**

**Disposal:** Consult a licensed waste disposal specialist for proper destruction. Observe all local, state and federal regulations.

**14. Transport Information**

**Hazard class:** Not regulated for transportation.

**Product identification number:** Not determined

**15. Regulatory Information**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the safety data sheet contains all of the information required by those regulations.

**16. Other Information**

This product is for laboratory research purposes, not for diagnostic or therapeutic use in humans or animals.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make independent decisions regarding completeness of the information based on all sources available. Cytodiagnostics Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

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