

Version 2

**Safety Data Sheet (SDS)**

Reviewed on 1.1.2024

**1. Chemical and Company Identification**

Product Name: NHS-activated Gold NanoUrchin Kit

Product Use: Laboratory chemical

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

Phone: (866) 344-3954

Web: [www.cytodiagnostics-us.com](http://www.cytodiagnostics-us.com)Information and Support: [customer\\_service-us@cytodiagnosics.com](mailto:customer_service-us@cytodiagnosics.com)**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:** NHS-activated Gold NanoUrchin (lyophilized) and 3 buffers.**Components:****Component 1:** N-Hydroxysuccinimide (PEG linker)-activated colloidal gold, 0.1mg, CAS# 7440-57-5

Proprietary components (trade secret per 29 CFR 1910. 1200 (i) (1))

**Component 2:** Protein resuspension buffer – Phosphate buffered saline (non-hazardous)**Component 3:** Quencher buffer- Tris base solution pH 8.0 (non-hazardous)**Component 4:** Reaction buffer – Phosphate buffered saline (non-hazardous)**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**

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***Suitable extinguishing media:***

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

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

Emits toxic fumes under fire conditions.

***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.

***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:***

Use personal protective equipment.

Avoid formation of dust and aerosols.

Provide appropriate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

***Conditions for safe storage:***

Keep container tightly closed and away from light.

Recommended storage temperature (NHS-activated Gold NanoUrchin): -20°C

Recommended storage temperature (buffers): 2-8°C

**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*****NHS- activated  
NanoUrchin******Resuspension  
Buffer******Reaction  
Buffer******Quencher  
Buffer***

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Appearance	Solid, dark purple to blue colour	Colourless	Colourless	Colourless
Odour	Odourless	Odourless	Odourless	Odourless
Odour threshold	No data available	No data available	No data available	No data available
pH	7-8	7-8	7-8	7-8
Melting point	No data available	No data available	No data available	No data available
Initial boiling point	No data available	No data available	No data available	No data available
Flash point	No data available	No data available	No data available	No data available
Evaporation rate	No data available	No data available	No data available	No data available
Flammability	No data available	No data available	No data available	No data available
Vapour pressure	No data available	No data available	No data available	No data available
Vapour density	No data available	No data available	No data available	No data available
Relative density	No data available	No data available	No data available	No data available
Solubility	No data available	No data available	No data available	No data available
Partition coefficient (n-octanol/water)	No data available	No data available	No data available	No data available
Auto-ignition temperature	No data available	No data available	No data available	No data available
Decomposition temperature	No data available	No data available	No data available	No data available
Viscosity	No data available	No data available	No data available	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:** Not applicable.

**Materials to avoid:** Oxidizing agents, strong acids

**Hazardous decomposition products:** Hazardous decomposition products may form under fire conditions. – Specific decomposition products not known.

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.

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**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 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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