

Revision Date: 12/12/2023

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Catalog Number	Product Name
GOLD40/OD1	Gold Colloid
GOLD40-OD5	Gold Colloid

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

Identified uses: Lab use

1.3 Details of the supplier of the safety data sheet

Company: Bangs Laboratories / A Division of Polysciences
9025 Technology Drive
Fishers, Indiana 46038
USA
Telephone: 800-387-0672

1.4 Emergency telephone number

Emergency Phone: 317-348-1673

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification: Non-Hazardous
Signal word: Non-Hazardous
Pictogram: NONE
Hazard Statement(s)

EUH208 Contains gold(iii) chloride trihydrate. May produce an allergic reaction

2.2 Hazard Ratings: These ratings are Bangs Laboratories, Inc.'s own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49). If no data is listed, the information is not available.

Health	Flammability	Reactivity
1	0	0

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

SECTION 4: FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin: In case of contact, immediately wash skin with copious amounts of water for at least 15 minutes.

Ingestion: Contact physician immediately.

Inhalation: Remove to fresh air if effects occur. Consult medical personnel.

Systemic: Human effects not established. No specific antidote. Treatment based on sound judgment of physician and the individual reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media:** Not applicable
- 5.2 Special hazards arising from the substance or mixture:** Suspended material is not flammable. Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, & silver.
- 5.3 Advice for firefighters:** Not applicable
- 5.4 Further Information:** No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Any information given below is considered to be in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition source from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel. Wear vinyl gloves, soak up spill in paper toweling, and rinse area with water. Put all generated waste into an approved container and dispose of as waste. Observe all applicable federal, state, and local disposal laws.
- 6.2 Environmental Precautions:** Do not discharge into drains or rivers
- 6.3 Methods and materials for containment and cleaning up:** Absorb onto appropriate spill kit material or suitable inert absorbent. Keep in suitable closed container for disposal.
- 6.4 Reference to other sections:** For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Respiratory Protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH-approved dust respirator.
- 7.2 Conditions for safe storage, including any incompatibilities**
Ventilation: Good room ventilation is adequate for most operations.
Respiratory Protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH-approved dust respirator. Storage: Store at 2-8°C. Do not freeze. Freezing can cause irreversible aggregation. Keep container closed.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 Control parameters**
Respiratory Protection: None normally needed.
Wash / Hygienic Practices: Wash with soap and water when leaving work area and before eating, smoking, and using restroom facilities.
- 8.2 Exposure Controls:** None Indicated
The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves. Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not internal immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Boiling Point:	No data available
Density (particles):	No data available
Solubility:	dispersible in water
Appearance:	odorless, various colored liquid

9.2 Other safety information: None

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: No data available

10.4 Conditions to avoid: Product may irreversibly aggregate if frozen.

10.5 Incompatible materials: No dangerous reaction known under conditions of normal use

10.6 Hazardous decomposition products: None

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: To the best of our knowledge, the chemical, physical, and toxic properties of this product have not been thoroughly investigated.

Acute Effects: None

Chronic Effects: None

SECTION 12: ECOLOGICAL INFORMATION

No Data

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number, the substance may be subject to special federal and state disposal regulations. If no codes are listed, the material must be disposed of in compliance with all Federal, State, and Local Regulations.

SECTION 14: TRANSPORT INFORMATION

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

SECTION 15: REGULATORY INFORMATION

All components of this product are on the TSCA public inventory.

No components of this product are known to the State of California to cause cancer.

No components of this product are known to the State of California to cause reproductive toxicity.

SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III): This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). This list is also referred to as the Toxic Release Inventory (TRI) List.

SARA Extremely Hazardous Substances and TPQs: No components of this product are identified as hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

SECTION 16: OTHER INFORMATION

BANGS LABORATORIES, INC. provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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Preparation Information:
Bangs Laboratories, Inc.
1-800-387-0672

END OF SDS