



# Johnson Matthey

## SAFETY DATA SHEET

Gold

Product code: 50000

### Section 1. Identification

**GHS product identifier** Gold  
**Chemical name** gold  
**Synonym** gold, colloidal; E 175; CI 77480; C.I. 77480  
**Product type** Solid.

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

Product use	Specific end use(s)	Uses advised against
Industrial Professional	Not available.	Not available.

**Address of Supplier:** Johnson Matthey Inc, 2001 Nolte Drive, West Deptford, NJ 08066 USA

**Emergency telephone number (with hours of operation):** +1 856 384 7050 24 hours

### Section 2. Hazards identification

**OSHA Status** While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification** Not classified.

#### GHS label elements

**Signal word** **No signal word.**

**Hazard statements** No known significant effects or critical hazards.

#### Precautionary statements

**Prevention** Not applicable.

**Response** Not applicable.

**Storage** Not applicable.

**Disposal** Not applicable.

**Hazards not otherwise classified** None known.

### Section 3. Composition/information on ingredients

#### Identifiers

**Product name** Gold  
**Product code** 50000  
**Chemical name** gold  
**Synonyms** gold, colloidal; E 175; CI 77480; C.I. 77480  
**CAS number** 7440-57-5  
**Substance/mixture** Substance

Ingredient name	%	CAS number
gold	99 - 100	7440-57-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### **Potential acute health effects**

- Eye contact** No known significant effects or critical hazards.
- Inhalation** No known significant effects or critical hazards.
- Skin contact** No known significant effects or critical hazards.
- Ingestion** No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

- Eye contact** No specific data.
- Inhalation** No specific data.
- Skin contact** No specific data.
- Ingestion** No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

### Extinguishing media

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

**Unsuitable extinguishing media** None known.

**Special protective actions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 5. Fire-fighting measures

<b>Chemical</b>	No specific fire or explosion hazard.
<b>Hazard</b>	Decomposition products may include the following materials:
<b>Remarks</b>	metal oxide/oxides

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### Methods and materials for containment and cleaning up

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Small spill** Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Occupational exposure limits

None.

**Appropriate engineering controls** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

## Section 8. Exposure controls/personal protection

<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Eye/face protection</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Body protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Other skin protection</b>	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

<b>Physical state</b>	Solid.
<b>Color</b>	Yellow.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Solubility</b>	Not available.
<b>Melting point</b>	1064.76°C (1948.6°F)
<b>Relative density</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Lower and upper explosive (flammable) limits</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	No specific data.

## Section 10. Stability and reactivity

**Incompatible materials** No specific data.

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

## Section 11. Toxicological information

### Information on the likely routes of exposure

**Oral:** No.

**Inhalation:** No.

**Skin:** No.

**Eyes:** No.

### Acute toxicity

Not available.

### Acute toxicity estimates

Not available.

### **Irritation/Corrosion**

Not available.

### **Sensitization**

Not available.

### Chronic toxicity

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

**Conclusion/Summary** Not available.

#### **Reproductive toxicity**

Not available.

#### **Developmental toxicity**

Not available.

#### **Conclusion/Summary**

#### **Specific target organ toxicity (single exposure)**

Not available.

#### **Specific target organ toxicity (repeated exposure)**

Not available.

#### **Aspiration hazard**

Not available.

### Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** No known significant effects or critical hazards.

**Ingestion** No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** No specific data.

**Inhalation** No specific data.

**Skin contact** No specific data.

## Section 11. Toxicological information

**Ingestion** No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

#### Long term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

#### Potential chronic health effects

Not available.

**General Chronic toxicity** No known significant effects or critical hazards.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Teratogenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

**Fertility effects** No known significant effects or critical hazards.

**Other adverse symptoms** No known significant effects or critical hazards.

## Section 12. Ecological information

### Ecotoxicity

Not available.

### Persistence/degradability Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Other adverse effects** No known significant effects or critical hazards.

**Ecotoxicity** Not available.

**Biodegradability** Not available.

## Section 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Return accumulated waste material to the refinery for metal recovery, or dispose of in accordance with local and national regulations.

## Section 14. Transport information

	DOT Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-

## Section 14. Transport information

Transport hazard class (es) and Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

**Special precautions for user** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** This material is listed or exempted.

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** Not listed

**Clean Air Act Section 602 Class I Substances** Not listed

**Clean Air Act Section 602 Class II Substances** Not listed

**DEA List I Chemicals (Precursor Chemicals)** Not listed

**DEA List II Chemicals (Essential Chemicals)** Not listed

### SARA 302/304

#### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** Not applicable.

### SARA 311/312

**Classification** Not applicable.

#### **Composition/information on ingredients**

No products were found.

### State regulations

#### **State Right to Know listings**

**Massachusetts** This material is not listed.

**New York** This material is not listed.

**New Jersey** This material is not listed.

**Pennsylvania** This material is not listed.

### International regulations

## Section 15. Regulatory information

	Ingredient name	List name	Status
Chemical Weapon Convention List Schedules I, II & III Chemicals	Not listed.		
Montreal Protocol (Annexes A, B, C, E)	Not listed.		
Stockholm Convention on Persistent Organic Pollutants	Not listed.		
Rotterdam Convention on Prior Inform Consent (PIC)	<b>Not listed.</b>		
UNECE Aarhus Protocol on POPs and Heavy Metals	Not listed.		

### National inventory

<b>Australia</b>	This material is listed or exempted.
<b>Canada</b>	This material is listed or exempted.
<b>China</b>	This material is listed or exempted.
<b>Europe</b>	This material is listed or exempted.
<b>Japan</b>	Not determined.
<b>Malaysia</b>	Not determined.
<b>New Zealand</b>	This material is listed or exempted.
<b>Philippines</b>	This material is listed or exempted.
<b>Republic of Korea</b>	This material is listed or exempted.
<b>Taiwan</b>	This material is listed or exempted.

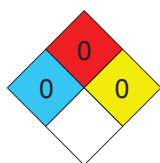
## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	0	Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.
Flammability	0	
Physical hazards	0	

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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### Key to abbreviations

ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)



## Section 16. Other information

UN = United Nations

**References** Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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Gold

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