

Material Safety Data Sheet (MSDS) Gold Nanoparticles

SECTION 1 PRODUCT AND COMPANY INFORMATION

1.1 Product Catalogue Number(s)	All gold colloid
1.2 Company Information	Sona Nanotech. 2001-1969 Upper Water Street Halifax, Nova Scotia T elephone: 902-318-4537
1.3 Emergency Contact	T elephone 902-318-4537 Email: info@sonanano.com

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Chemical / Preparation Name	Percent	ELINCS/EINECS
7440-57-5	Colloidal gold	0.001 - 0.01%	231-165-9

Hazard Symbols: Risk Phrases:

SECTION 3 HAZARD IDENTIFICATION

Overview

Avoid contact and inhalation

Potential Health Effects

Eyes	May cause eye irritation	
Skin	May cause skin irritation. May be harmful if absorbed through the skin	
Ingestion	May be harmful if swallowed	
Inhalation	Material may be irritating to mucous membrane and upper respiratory tract.	
Chronic	Not known	



SECTION 4 FIRST AID MEASURES

Eyes	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.	
Skin	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.	
Ingestion	If swallowed, wash out mouth with water provided the person is conscious. Call a physician.	
Inhalation	Remove to fresh air. If breathing becomes difficult, Call a physician.	

Notes to Physician

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SECTION 5 FIRE FIGHTING MEASURES

General Information

Wear self-contained breathing apparatus and protective clothing. Prevent contact with skin and eyes. Emits toxic fumes under fire conditions/heated.

Extinguishing Media

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills / Leaks

Wear respirator, chemical resistant gloves, chemical safety goggles, and rubber boots. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after pickup is complete.

SECTION 7 HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes.

Storage

Store between 2 – 8°C. Do not freeze.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs	OSHA – Vacated PELs
Colloidal Gold	N/A	N/A	N/A	N/A

Personal Protective Equipment

Eyes	Wear chemical safety goggles.	
Skin	Wear chemical resistant gloves.	
Clothing	Will stain clothing; wear disposable/washable laboratory garments. Rubber boots.	
Respirators	Wear appropriate NIOSH/MSHA approved respirator.	



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colourless/Pale Yellow or Red/Purple
Odour	None
рН	Varies from pH5 to pH10
Vapour Pressure	N/A
Vapour Density	N/A
Evaporation Rate	As water
Viscosity	As water
Boiling Point	As water
Freezing / Melting Point	As water
Auto-ignition Temperature	N/A
Flash Point	N/A
Decomposition Temperature	N/A
NFPA Rating	N/A
Explosion Limits Upper	N/A
Explosion Limits Lower	N/A
Solubility	Aqueous solution
Specific Gravity / Density	N/A
Molecular Formula	N/A
Molecular Weight	N/A

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to Avoid	Freezing
Incompatibilities with other Materials	Contact with salts will cause precipitation of colloid
Hazardous Decomposition Products	Not known
Hazardous Polymerisation	Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

RTECS Number	MD5070000 (gold)
CAS Number:	7440-57-5

SECTION 12 ECOLOGICAL INFORMATION

Ecological Hazards	No data available
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SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal - Material	Contact a licensed waste disposal service to dispose of this material.
Waste Disposal – Empty Packaging:	Contact a licensed waste disposal service to dispose of this packaging.

SECTION 14 TRANSPORT INFORMATION

Shipping Name:	Gold nanoparticles
Notes	Ship at ambient temperature. Do not allow to freeze. Non-hazardous for air, sea or road freight.

SECTION 15 REGULATORY INFORMATION

Exposure Limits

SECTION 16 OTHER INFORMATION

MSDS Creation/Revision Date	26 Apr 2019
Next Revision Due:	26 Apr 2022
Notes	Customers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Sona Nanotech be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Sona Nanotech has been advised of the possibility of such damages.

