SECTION 1: Identification of the substance/mixture and of the company/undertaking

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1.1 Product identifier	
Trade name: <u>Gold Nanochain [AuNP-Chain: 1-2 μm (Gum Arabic)]</u>	
Item number: 79-0134	
CAS Number:	
7440-57-5 EC number:	
231-165-9	
1.2 Relevant identified uses of the substance or mixture and uses advised against	
No further relevant information available.	
1.3 Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
Strem Chemicals, Inc.	
7 Mulliken Way	
NEWBURYPORT, MA 01950 USA	
USA info@strem.com	
•	
Further information obtainable from: Technical Department 1.4 Emergency telephone number:	
EMERGENCY: CHEMTREC: + 1 (800) 424-9300	
During normal opening times: +1 (978) 499-1600	
SECTION 2. Hazanda identification	
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008	
$\wedge$	
GHS07	
V	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2 H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation.	
2.2 Label elements	
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008	
The substance is classified and labelled according to the CLP regulation.	
Hazard pictograms	
GHS07	
Signal word Warning	
Hazard-determining components of labelling:	
Gold	
Hazard statements	
H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. <b>Precautionary statements</b>	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	(Contd. on
H319 Causes serious eye irritation. H335 May cause respiratory irritation. <b>Precautionary statements</b>	(Contd. on
H319 Causes serious eye irritation. H335 May cause respiratory irritation. <b>Precautionary statements</b>	(Contd. on

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	(Contd. of page 1)
P102	Keep out of reach of children.
P103	Read label before use.
P235	Keep cool.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351-	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P411	Store at temperatures not exceeding 4°C.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other ha	zards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

- 3.1 Chemical characterisation: Substances
  CAS No. Description 7440-57-5 Gold
  Identification number(s)
  EC number: 231-165-9
- **SECTION 4: First aid measures**

#### • 4.1 Description of first aid measures

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation.

- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage: Keep cool.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- *Recommended storage temperature:* Store at temperatures not exceeding 4 °C. Keep cool.
- · 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)



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Dynamic: Not dete	ible or difficult to mix. mined.
	••
Kinematic: Not dete	mined.
Solvent content:	mined.
Organic solvents: 0.0 %	mined.
VOC (EC) 0.00 % 9.2 Other information No furth	mined.

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- $\cdot$  Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

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14.1 UN-Number		
ADR, ADN, IMDG, IATA	not regulated	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	not regulated	
14.4 Packing group ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	

### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

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.

· Department issuing SDS: Technical Department.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- *Eye Irrit. 2: Serious eye damage/eye irritation Category 2*

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

<sup>·</sup> Contact: Technical Director

<sup>•</sup> Abbreviations and acronyms: