

# **Material Safety Data Sheet**

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Version 1.10

# **Section 1 - Product and Company Information**

**Product Name** 

GOLD, SPONGE, 99.99%

**Product Number** 

289779

**Brand** 

Aldrich Chemical

Company

Sigma-Aldrich

Street Address City, State, Zip, Country 3050 Spruce Street St. Louis, MO 63103 US

**Technical Phone:** 

314 771 5765

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800 325 5052

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414 273 3850 Ext.5996

# Section 2 - Composition/Information on Ingredient

**Substance Name** GOLD

CAS# 7440-57-5 **SARA 313** No

**Formula Synonyms** 

Burnish gold, C.I. 77480, C.I. Pigment Metal 3, Colloidal gold, Gold flake, Gold leaf, Gold powder,

Magnesium gold purple, Shell Gold

# Section 3 - Hazards Identification

**HMIS Rating** 

Health: 0

Flammability: 0

Reactivity: 0

**NFPA Ratings** 

Health: 0

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

#### **Section 4 - First Aid Measures**

#### **Oral Exposure**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

## **Dermal Exposure**

In case of contact, immediately wash skin with soap and copious amounts of water.

## **Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

# Information for Physician

Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water.

## Section 5 - Fire Fighting Measures

**Autoignition Temp:** 

N/A

Flammability:

N/A

#### **Extinguishing Media**

Suitable

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

#### Firefighting

#### **Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### Specific Hazard(s)

Emits toxic fumes under fire conditions.

#### Section 6 - Accidental Release Measures

#### Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

#### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

#### Handling

#### **User Exposure**

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### Storage

#### Suitable

Keep tightly closed. Store under argon.

## Section 8 - Exposure Controls / PPE

# **Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

#### **Personal Protective Equipment**

#### Respiratory

NIOSH/MSHA-approved respirator.

#### Hand

Compatible chemical-resistant gloves.

#### Eye

Chemical safety goggles.

#### **General Hygiene Measures**

Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

#### **Appearance**

Color

Yellow

Molecular Weight:	196.97 AMU
Property	<u>Value</u>
Hq	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A
Autoignition Temp	N/A
Solubility	N/A

# Section 10 - Stability and Reactivity

#### Stability

#### Materials to Avoid

Hydrogen peroxide, Halogens, Ammonia.

#### **Hazardous Decomposition Products**

# **Hazardous Decomposition Products**

Nature of decomposition products not known.

## **Hazardous Polymerization**

#### **Hazardous Polymerization**

Will not occur.

# Section 11 - Toxicological Information

#### **Route of Exposure**

## **Skin Contact**

May cause skin irritation. Exposure to gold compounds can cause contact dermatitis.

#### Skin Absorption

May be harmful if absorbed through the skin.

#### **Eye Contact**

May cause eye irritation.

#### Inhalation

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

#### Ingestion

May be harmful if swallowed.

# Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: MD5070000

#### **Chronic Exposure Carcinogen**

Rat - Implant: 200 MG/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Mouse - Implant: 21 GM/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Rat - Implant: 4730 MG/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

## Section 12 - Ecological Information

#### Section 13 - Disposal Considerations

#### Appropriate Method of Disposal of Substance or Preparation

Material in the elemental state should be recovered for reuse or recycling.

Observe all federal, state, and local environmental regulations.

#### **Section 14 - Transport Information**

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Proper Shipping Name: None

Non-Hazardous for Air Transport: Non-hazardous for air transport.

## Section 15 - Regulatory Information

# US Classification and Label Text Handling and Storage

Store under Argon.

**United States Regulatory Information** 

SARA 313 Listed: No

TSCA Inventory Item: Yes

## Section 16 - Other Information

## Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2000 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.