

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product name : Gold

### 1.3 Details of the supplier of the safety data sheet

Company : ASAHI METAL FINE, Inc.

Address : Sapia Tower 11F 1-7-12 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

Telephone : +81-3-6270-1826

FAX : +81-3-6270-1813

### 1.4 Emergency telephone number

Telephone : +81-297-20-9032

## 2. HAZARDS IDENTIFICATION

GHS classification and label element of the product

### 2.1 Classification of the substance or mixture

#### HEALTH HAZARDS

Not applicable to GHS classification criteria

### 2.2 Label elements

Not applicable

#### HAZARD STATEMENTS

Not applicable to GHS classification criteria

#### PRECAUTIONARY STATEMENTS

##### Prevention

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

##### Response

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a doctor.

Call a doctor if you feel unwell.

##### Disposal

Dispose of the contents/container in accordance with local/regional/national/international regulations.

### 3. COMPOSITION/INFORMATION IN INGREDIENTS

#### 3.1 Substances

Formula	: Au
CAS-No.	: 7440-57-5
Content	: $\geq 99.99$ %

### 4. FIRST AID MEASURES

#### 4.1 Description of first-aid measures

##### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Get medical attention/advice if you feel unwell.

##### IF ON SKIN

Wash with plenty of water.

If skin irritation or rash occurs: Get medical attention/advice.

Get medical attention/advice if you feel unwell.

##### IF IN EYES

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention/advice.

##### IF SWALLOWED

Rinse your mouth immediately.

Get medical attention/advice if you feel unwell.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use extinguishing measure that are appropriate to local circumstances and the surrounding environment.

#### 5.2 Specific hazards arising from the substance or mixture

No specific hazards identified by high temperature decomposition.

Avoid contact of molten gold with water.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personnel precautions, protective equipment and emergency procedures

Use proper personal protective equipment as indicated in Section 8.

#### 6.2 Environmental precautions

Avoid release to the environment.

#### 6.3 Methods and materials for containment and cleaning up

Spills/Leaks : Sweep up material and place into a suitable disposal container.

### 7. HANDLING AND STORAGE

#### 7.1 Handling

##### Handling precautions

Avoid breathing dust, vapor, mist, or gas.

### **Safety Measures**

In areas where this product is melted or where dust, fumes or other particles are generated during processing of this product:

Use general or local ventilation.

Wear protective gloves / protective clothing / eye protection / face protection.

### **Advice on general occupational hygiene**

Wash hands thoroughly after handling.

Don't eat, drink or smoke when using this product.

## **7.2 Storage**

No special requirements.

## **8. EXPOSURE CONTROLS**

### **8.1 Control parameters**

No information available

### **8.2 Exposure controls**

#### **Engineering Controls**

In areas where this product is melted or where dust, fumes or other particles are generated during processing of this product:

Equip with an eyewash facility and a safety shower.

Use adequate general or local ventilation.

#### **Personal Protective Equipment**

Respiratory protection : Wear appropriate respiratory protection.

Hand protection : Wear appropriate protective gloves.

Eye protection : Wear appropriate safety glasses or chemical safety goggles.

Skin and body protection : Wear appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

• Appearance	Form : Solid Color : Golden
• Odor	odorless
• Melting Point	1,064°C
• Boiling Point	2,970°C
or initial boiling point and boiling range	
• Flammability	No data available
• Lower and upper explosion limit flammability limit	No data available
• Flash point	No data available
• Auto-ignition temperature	No data available
• Decomposition temperature	No data available

• pH	No data available
• Kinematic viscosity	Not applicable for solids
• Water solubility	No data available
• Partition coefficient n-octanol/water	No data available
• Vapor pressure	No data available
• Density	19.32g/cm <sup>3</sup>
• Relative Vapor density	No data available
• Particle characteristics	No data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity / 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Avoid contact with incompatible materials.

### 10.5 Incompatible materials

Strong acid, Strong oxidizing agents

### 10.6 Hazardous decomposition products

No information available

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity : No data available

Skin corrosion/irritation : No data available

Serious eye damage/ irritation : No data available

Respiratory or skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

Specific target organ toxicity (single exposure) : No data available

Specific target organ toxicity (repeated exposure) : No data available

Aspiration hazard : No data available

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Hazardous to the aquatic environment - short-term(acute) hazard : No data available

Hazardous to the aquatic environment - long-term(chronic) hazard : No data available

Hazardous to the ozone layer : No data available.

### 12.2 Persistence and degradability

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of the contents/container to in accordance with local/national regulation.

**14. TRANSPORT INFORMATION**

The product is not regulated under UN regulations.

UN-No: -

Specific precautionary transport measures and conditions : No data available

**15. REGULATORY INFORMATION**

Please note that regulatory requirements may vary depending on your country or region. It is the responsibility of the user to ensure compliance with applicable regulations.

Please consult the appropriate authorities or seek professional advice to ensure compliance with all relevant regulations and requirements in your country or region.

**16. ADDITIONAL INFORMATION****Reference Book**

- JIS Z 7252(2019) / JIS Z 7253(2019) (JIS:Japanese Industrial Standards)
- Globally Harmonized System of classification and labelling of chemicals,(6th ed.,2015), UN
- 2021 TLVs and BEIs (ACGIH)
- NITE : National Institute of Technology and Evaluation (JP)
- anzeninfo.mhlw (Ministry of Health,Labour and Welfare) (JP)

**General Disclaimer**

This information does not guarantee the quality or safety of the product. It provides information on the danger or hazard of the product.

The data and evaluation described in this manual are not always sufficient. All chemical products have unknown hazards, so be careful when handling them.

The precautions are intended for normal handling and should be taken with sufficient safety measures in case of special handling.