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REVISION N ^o : 1		
ISSUED DATE: 10.11.2025	WORK PROCEDURE TASK	SAFETY DATA SHEET – GOLD
	SECTION:	GOLD
	DOCUMENT N ^o :	SDS-018

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Product code : **AU METAL**
Version : **1**
Date of issue : **10/11/2025**
Date of previous issue : No previous validation

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

1.1. Product Identifier

Product name : Gold Sponge
Chemical Name : Gold
Formula : Au

1.2. Relevant identified uses of the substance or mixture and uses advised against Specific uses

Decorative coating, Dental alloy, Electronics, Industrial applications, Jewellery, Laboratory applications.

1.3. Details of the supplier of the safety data sheet

Supplier Name : Impala Platinum Ltd – Refineries
Address : Base Metals Refinery
 P.O. Box 222
 SPRINGS
 1560
 GAUTENG
 Republic of South Africa

 : Impala Platinum Ltd – Refineries.
 Corner East Geduld Road & Cowles Street
www.implats.co.za

Contact Person (s) : Jamie Welman
 Tel: +27 11 360 3111
 E-mail: jamie.welman@implats.co.za

Emergency Telephone Number
Impala Platinum Refineries : +27(0)11 360 3777

1.4. Emergency telephone number

See above for Refineries contacts.
 Poison Centre:
 Tygerberg Hospital, Belville, Cape : +27 (0)21 931 6129

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SECTION 2: Hazard Identification

2.1. Classification of the substance or mixture

Product definition : Low toxicity

2.2. Label elements

Hazard Pictograms :



Signal word : Warning

Hazard statements : Harmful-if swallowed – in contact with skin, - if inhaled.
This product may cause adverse health effects with high-level dust generation, inhalation or prolonged skin contact.

Additional labeling : Each container should be labeled as follows

2.3. Other Hazards

If dissolved, ensure adequate enclosure or ventilation: do not breath the mists and avoid solution contact with eyes, skin and clothing.

May cause sensitisation or allergic reaction.

If melted do not breath the furnace fume.

SECTION 3: Composition / Information on Ingredients

3.1. Substances

Gold

Product / Ingredient name – Gold

Identifiers	%	Classification	Type
CAS#: 7440-57-5 EINECS Number: 231-165-9	99.50-99.99 %	Major components	[*]

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Exposure is considered unlikely. Due to product form / nature of use, an inhalation hazard is not anticipated. Seek medical attention if irritation develops.
Ingestion:	For advice, contact a Doctor or the Poisons Information Centre on +27-21-931-6129. Due to product form and application, ingestion is considered unlikely.
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek medical attention if irritation develops.
Eyes:	Exposure is considered unlikely unless casing is damaged. Flush gently with running water. Seek medical attention if irritation develops.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire
Unsuitable extinguishing media	:	Not applicable

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture : May evolve toxic gases if strongly heated

NOTE : The Gold Sponge supplied by Impala Platinum is non-flammable and therefore **DOES NOT** present a fire hazard.

5.3. Advice for firefighters

Special protective actions for firefighters	:	Not applicable
Special protective equipment for firefighters	:	Not applicable

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : If spilt (bulk) wear goggles and PVC or rubber gloves. Where a dust inhalation hazard exists (i.e. when used large quantities) wear a Class P1 (particulate respirator)

6.2. Environmental precautions

Environmental precautions : Not applicable

6.3. Methods and material for containment and cleaning up

Spill : If spilled sweep up and reuse where possible

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Protective measures : Before use carefully read the product label
Use of safe work practices are recommended to avoid eye or skin contact and inhalation.

Advice on general Occupational hygiene : Observe good personal hygiene, including washing hands before eating.
Prohibit eating, drinking and smoking in contaminated areas.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from oxidizing agents, acids, ammonia, ammonium hydroxide, hydrogen peroxide and foodstuffs.

Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Occupational exposure limits – Gold

Exposure limit values
No exposure standard (s) allocated

8.2. Exposure controls

Individual protection measures

Hygiene measures : Practice good housekeeping and personal hygiene procedures.
No eating, drinking or smoking in work area.
Wash hands thoroughly before eating, drinking or smoking.
Avoid ingestion, inhalation and skin and eye contact.
Medical examinations, monitoring, record keeping and hygiene facilities are recommended.

Eye protection : Wear dust-proof goggles.

Hand protection : Wear suitable gloves (cotton or leather gloves)

Skin protection : Safety shoes, overalls or similar full-body work clothes should be worn and laundered daily. This protective clothing should not be worn at home.

Respiratory protection : Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.
Where an inhalation risk exists, mechanical extraction ventilation is recommended.

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SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1. Information on basic physical and chemical properties

Appearance	:	Yellow Solid
Odour	:	Odourless
Melting point/freezing point	:	1064°C (1937°F)
Initial boiling point and boiling range	:	2857°C (5201°F)
Flammability (solid, gas)	:	Non-flammable solid
Flash point	:	Not applicable
Auto flammability	:	Not applicable
pH	:	Not applicable
Solubility - hydrosolubility	:	Insoluble in water
Solubility – liposolubility (solvent-oil)	:	Insoluble in solvent-oil
Vapour pressure	:	Unknown
Explosive properties	:	Not applicable
Oxidising properties	:	Not applicable
Relative density	:	19.3 g.cm ³
Partition coefficient (n-octanol/water)	:	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended conditions of storage.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur

10.4. Conditions to avoid

Exposure to high temperatures (>1000°C, sparks, open flames and other ignition sources.

10.5. Incompatible materials

Incompatible with oxidizing agents (e.g. Hypochlorite's), acids (e.g. Nitric acid), ammonia, ammonium hydroxide and hydrogen peroxide.

10.6. Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Ingestion: Ingestion is considered unlikely due to product form
Poorly absorbed and therefore considered non toxic.

11.2 Skin Corrosion / Irritation

Low irritant: Prolonged or repeated contact may result in mild irritation rash and dermatitis.

11.3 Serious eye damage / Irritation

Irritant: Exposure considered unlikely. Due to product form and nature of use, an inhalation hazard is not anticipated with normal use.

11.4 Respiratory or Skin Sensitisation

Non-irritant: Exposure considered unlikely
Due to product form and nature of use, an inhalation hazard is not anticipated with normal use.

11.5 Germ Cell Mutagenicity

Repeated or prolonged exposure is not known to aggravate medical condition.

11.6 Carcinogenicity

Non-carcinogenic: Not identified as carcinogenic

11.7 Reproductive Toxicity

Not available

11.8 Specific Target Organ Systemic Toxicity – Single exposure

Not available

11.9 Specific Target Organ Systemic Toxicity – Repeated Exposure

Not available

11.10 Aspiration Hazard

Inhalation: Exposure considered unlikely.
Due to product form and nature of use, an inhalation hazard is not anticipated with normal use.

NOTE:

Potential Health Effects: Skin contact with this material in solid forms is not known to be hazardous.
In finely divided form, skin contact may produce localized irritation

Inhalation: Dust may respiratory tract irritation by mechanical action.
No significant acute or chronic effects are known from exposure by inhalation.

Ingestion: Ingestion of this material in finely divided form may produce gastric irritation, vomiting, abdominal pain, haemorrhage, diarrhea. Long term (chronic) ingestion produce injury to the liver, kidney, spleen, pancreas and brain.

Health Conditions Aggravated by Exposure:

Pre-existing pulmonary diseases (e.g. Bronchitis, emphysema) may be aggravated by inhalation of this material as fumes.

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SECTION 12:Ecological information

12.1 Toxicity

Gold Metal

Gold Metal is not anticipated to cause adverse effect to animal or plant life if released to the environment in small quantities. The biodegradation of gold under aerobic conditions is expected to be very poor and there is no evidence to suggest it creates ecological problems when released into the environment. Since gold is insoluble, it is believed to have minimal bioaccumulation and bioavailability characteristics.

Gold metal may have the following effects:

Persistence	:	Unknown
Bioaccumulation potential	:	Minimal bioaccumulation and characteristics
Biomagnification	:	Unknown
Biodegradability	:	The biodegradation of gold under aerobic conditions are expected to be very poor

12.2 Ecotoxicity

Aquatic organisms	:	Unknown
Soil organisms	:	Unknown
Plants and terrestrial animals	:	Unknown

12.3 Other adverse effects

Ozone depletion potential	:	Does not contain ozone depleting substances
Photochemical ozone creation Potential	:	Not applicable
Global warming potential	:	Not applicable
Effects on waste water treatment Plants	:	Unknown

The environmental effects of Gold and its compounds have not been fully evaluated.

SECTION 13:Disposal considerations

13.1. Waste treatment methods

Product Methods of disposal	:	Disposer must comply with state and local laws This material can be metallurgically recycled by Impala Platinum, South Africa, which is a pre-authorized facility for the environmentally sound recovery of metals.
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SECTION 14:Transport information

14.1. UN number: Not applicable Not regulated for Transport Purposes

ADR/RID	ADN	IMDG	IATA / ICAO
Not Applicable	Not Applicable	Not Applicable	Not Applicable

Packing:

In plastic bags sealed in tins which in turn are sealed in boxes

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SECTION 15:Regulatory information

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

United States: CERCLA : Not regulated
 Canada:
 EU/EC Classification:

SECTION 16:Other information

- 16.1 Chem Alert, Gold Metal, Powder and Pieces, John Morris Scientific PTY LTD
- 16.2 COTOX database: <http://cfpub.epa.gov/ecotox>
- 16.3 Lenntech: <http://www.lenntech.com/periodic/elements/au.htm#ixzz4QLJTXBxy>
- 16.4 Science Lab: <http://www.sciencelab.com/msds.php?msdsId=9924183>

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