



GOLD POWDER

Australian Specialty Inks Pty Ltd

ABN 71 002 591 620

17 Reaghs Farm Rd, Minto NSW 2566

Telephone: (02) 9603-3399 Fax (02) 9603-7761

Website: [www.austspecialtyinks.com.au](http://www.austspecialtyinks.com.au)

Product Number: FSU5656

## SAFETY DATA SHEET

### 1. IDENTIFICATION

#### Product Identifiers

Product Name: GOLD POWDER

Product Number: FSU5656

Recommended Use of the chemical and restrictions on use: Use as a pigment colouring agent

#### Company Details

AUSTRALIAN SPECIALTY INKS PTY LTD

A.B.N. 71 002 591 620

17 REAGHS FARM ROAD MINTO NSW 2566

(02) 9603-3399

A/H (02) 9792-7790 or mobile 0414 616247

Email: [info@austspecialtyinks.com.au](mailto:info@austspecialtyinks.com.au)

Website: [www.austspecialtyinks.com.au](http://www.austspecialtyinks.com.au)

#### Emergency Telephone Number

Mob: 0414616247

### 2. HAZARDS IDENTIFICATION

Classified as hazardous according to the Globally Harmonised System of Classification and labeling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

GHS classification(s): Flammable Solids: Category 1; Acute toxicity, Category 4, Oral; Acute aquatic toxicity, Category 1; Chronic aquatic toxicity, Category 2.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> Edition).

Flammable Solid: Category 4.1

Signal Words: DANGER



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GHS Classification	Pictogram	Hazard Statement
Flammable Solid, Category 1		H228 Flammable solid
Acute Toxicity, Category 4		H302 Harmful if swallowed
Acute Aquatic Toxicity, Category 1 Chronic Aquatic Toxicity, Category 2		H400 Very toxic to aquatic life H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

<b>GENERAL</b>	P101 P102 P103	If medical advice is needed, have product container or label at hand Keep out of reach of children Read label before use
<b>PREVENTATIVE</b>	P270 P273 P210 P233 P240 P241 P261	Do not eat, drink or smoke when using this product Avoid release to the environment Keep away from heat/sparks/open flames/hot surfaces. – No smoking Keep container tightly closed Ground/Bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Avoid breathing dust
<b>RESPONSE</b>	P391 P370+P378	Collect spillage In case of fire: Use for extinction: Special powder for metal fires or dry sand Collect spillage



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	P312	Call a POISON CENTRE or doctor/physician if you feel unwell
<i>STORAGE</i>	P403+P235 P405	Store in a well ventilated place. Keep cool Store locked up
<i>DISPOSAL</i>	P501	Dispose of contents/container in accordance with local regulations



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients Names and Proportions

Chemical entity	CAS Number	Proportion
Copper	7440-50-8	60-100 %
Zinc powder – zinc dust (stabilized)	7440-66-6	10- 30 %

### 4. FIRST-AID MEASURES

#### Description of necessary first aid measures

Inhalation:	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.
Skin Contact:	The product is not skin irritating. If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.
Eye Contact:	If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.
Ingestion:	If swallowed seek medical treatment. For advice contact a Poison Information Centre on 13 1126. Do not induce vomiting. Ingestion considered unlikely due to product form.

#### Symptoms caused by exposure

Inhalation:	Overexposure to copper powder may result in mucous membrane irritation of the nose and throat.
Skin Contact:	No further relevant information available.
Eye Contact:	No further relevant information available.
Ingestion:	No further relevant information available.

Treat symptomatically.



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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing equipment

Special powder for metal fires or dry sand. Soda ash or lime. Do not use water.

For safety reasons unsuitable extinguishing agents:

Foam

Carbon dioxide

Water

ABC powder

### Specific hazards arising from the chemical

Flammable dust. Fine copper/zinc powder may be explosive if dispersed into a dust cloud in air in the presence of an ignition source.

### Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus when combating fire.

### Special protective equipment and precautions for fire fighters

No special measures required

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Avoid causing dust. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area.

### Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers.

### Methods and materials for containment and cleaning up

Collect mechanically using spark proof equipment and shovels. Do not use a vacuum cleaner. Collect and place in dry, clean, pressure vented, metal containers for re-use or disposal. Do not flush with water or aqueous cleaning agents.



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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Before use carefully read safety information. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Prevent formation of dust. Any deposit of dust which cannot be avoided must be removed regularly. Protect from humidity and keep away from water.

### Information about protection against explosions and fires

Keep ignition sources away – Do not smoke.  
Protect against electrostatic charges.  
Dust can combine with air to form an explosive mixture.  
Use intrinsically safe equipment, non sparking tools.

### Conditions for safe storage

Store in a well cool, ventilated area, away from sunlight, ignition sources and other sources of heat. Store only in original container ensuring adequately labelled. Do not store with oxidizing, acidic or alkalis.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters

Copper powder:

Exposure Limits: Copper dusts and mists (as Cu), TWA 1MG/M3. Worksafe Standard, 10/1991.

### Exposure control measures

Personal protective equipment. Use suitable breathing protection if workplace concentration requires. Filter P1.

Long cuffed gloves.

Eye and face protection.

Anti-static and fire resistant protective clothing and anti-static safety shoes.

Wash hands during breaks and at the end of the work.

### Biological monitoring

No biological limit allocated.

### Engineering controls

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling dust mists. Keep containers closed when not in use.



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### Individual protection measures

<b>Eye and face protection:</b>	Wear safety goggles.
<b>Skin protection:</b>	Use leather gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes. Dust impervious protective suit
<b>Respiratory Protection:</b>	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65 <sup>o</sup> C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
<b>Thermal hazards:</b>	Not applicable.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Gold coloured powder
<b>Odour:</b>	Odourless
<b>Odour threshold (ppm):</b>	Data not available
<b>pH:</b>	Data not available
<b>Initial boiling point and boiling range (°C):</b>	Data not available
<b>Flash point (°C):</b>	Not applicable
<b>Ignition Temperature (°C):</b>	Data not available
<b>Minimum ignition Temperature (°C) test-dust layer:</b>	Data not available
<b>Flammability:</b>	Flammable solid
<b>Danger of explosion:</b>	This product is not hazardous in regard of



	explosions, however, may form explosive dust/air mixtures.
<b>Critical values for explosion Lower (g/m<sup>3</sup>):</b>	Data not available
<b>Vapour density (air = 1):</b>	Data not available
<b>Density (g/m<sup>3</sup> @ 20°C):</b>	Data not available
<b>Solubility:</b>	Insoluble in water

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions of use. No decomposition if stored and applied as directed

### Chemical stability

Stable under normal conditions of use. No decomposition if stored and applied as directed

### Possibility of hazardous reactions

Avoid dust clouds, they may form explosible dust air-mixture.

### Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Dust formation.

### Incompatible materials

Materials to avoid: no data available.

### Hazardous decomposition products

None





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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	LD50 Oral (rat): >2000mg/kg LC50 Inhalation (rat): 541 mg/m <sup>3</sup>
<b>Skin corrosion/irritation:</b>	No data available
<b>Serious eye damage/irritation:</b>	No data available
<b>Respiratory:</b>	No sensitizing effect known.
<b>Ingestion:</b>	No adverse effects expected.
<b>Germ Cell mutagenicity:</b>	Not expected to be mutagenic
<b>Carcinogenicity:</b>	No evidence of carcinogenic properties.
<b>Reproductive toxicity:</b>	Not expected to impair fertility
<b>Subacute to chronic toxicity:</b>	No effects known
<b>Additional toxicological information:</b>	Above given information is based on long term experience.



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## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity

<b>Fish:</b>	Very toxic
<b>Aquatic invertebrate:</b>	Very toxic
<b>Algae:</b>	No further relevant information available
<b>Microorganisms:</b>	No further relevant information available

Chronic toxicity

<b>Fish:</b>	Toxic to with long lasting effects
<b>Aquatic invertebrate:</b>	Toxic to with long lasting effects
<b>Algae:</b>	No further relevant information available
<b>Microorganisms:</b>	No further relevant information available

### Persistence and degradability

No further relevant information available

### Bioaccumulative potential

No further relevant information available

### Mobility in soil

No further relevant information available

### Other adverse effects

No further relevant information available.



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### 13. DISPOSAL CONSIDERATIONS

Recycle where possible. Ensure waste disposal conforms to local waste disposal regulations.

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container. Send to licensed waste management company.

Empty remaining contents from packaging and dispose of any unused product. Do not reuse empty containers. Do not burn, or use a cutting torch on the empty drum.

### 14. TRANSPORT INFORMATION

<b>UN number:</b>	3089
<b>Proper shipping name:</b>	METAL POWDER, FLAMMABLE N.O.S. (Gold bronze powder)
<b>Australian Dangerous Goods class:</b>	4.1
<b>Australian Dangerous Goods packing group:</b>	II
<b>Hazchem code:</b>	4Z

### 15. REGULATORY INFORMATION

<b>Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:</b>	Not scheduled
<b>Australian Inventory of Chemical Substances (AICS):</b>	Listed
<b>Dangerous Goods Initial Emergency Response Guide (SAA/SNZ):</b>	16

### 16. ANY OTHER RELEVANT INFORMATION



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<b>Date of preparation:</b>	11/03/2019
<b>Revision number:</b>	1
<b>Changes in this revision:</b>	Update to GHS SDS standard