

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade Name: MP – 2 Gold Powder

Date: January 2020



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

MP – 2 Gold Powder

1.2 Uses/Application: Specialty inks

1.3 Details of the supplier of the safety data sheet

Address

Lancer Group International
311 Saulteaux Crescent
Winnipeg, Manitoba
Canada R3J 3C7
Telephone no: +1 (204) 889-7422
Fax no: +1 (204) 8310426
Information provided by: Product Safety Department
Email address of the person responsible for this SDS: cecilia@lancergroup.com

1.4 24 Hour Emergency Number: +1 (888) 226-8832 CANUTEC

SECTION 2 HAZARDS IDENTIFICATION

2.1 Emergency Overview

Form: powder

Colour: gold

Odour: odourless

2.2 OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200)

Trade Name: MP – 2 Gold Powder

Date: January 2020

2.3 Potential Health Effects

Eyes: Contact will cause irritation. Category 2A

Skin: Contact may cause irritation.

Ingestion: Ingestion will cause irritation of the digestive tract. Category 4

Inhalation: High concentrations of dust resulting from the product being heated, misted or sprayed may cause irritation of the respiratory tract and mucous membranes.

Chronic Exposure: No known chronic health effects.

Aggravated Medical Condition: May be aggravating to some skin conditions asthma-type conditions

Primary Routes of Entry: Skin contact
Skin absorption
Inhalation
Eyes
Ingestion

Carcinogenicity:

No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Environmental Effects

Environmental Effects: No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

3.1 Substance

Copper

3.2 Hazardous components

| Component | CAS No. | Weight Percentage |
|-------------------|----------------|--------------------------|
| Copper | 7440-50-8 | $\geq 70 - < 90$ |
| Zinc | 7440-66-6 | $\geq 10 - < 20$ |
| Silica | 7631-86-9 | $\geq 1 - < 5$ |
| Octadecanoic acid | 57 – 11 4 | $\geq 1 - < 5$ |

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.

Skin contact

Remove contaminated clothing. Wash thoroughly with soap and water.

Eye contact

Immediately flush with plenty of water for at least 20 minutes. Get medical aid.

Ingestion

Do not induce vomiting. Dilute with 1-2 glasses of water. Get medical aid. Never give anything by mouth to an unconscious person.

Notes to physician

Risks: No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: ABC powder
 Special powder against metal fire
 Dry Sand

Unsuitable extinguishing media: Water, High volume water jet
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

5.2 Specific hazards during firefighting

Cool closed containers exposed to fire with water spray. Do not allow run – off from fire fighting to enter drains or water courses

5.3 Hazardous decomposition products due to incomplete combustion

No data available

5.4 Further information

Keep away from heat and sources of ignition.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area.

6.2 Environmental precautions

Prevent spilled material from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities

6.3 Methods for containment

Use mechanical handling equipment.

6.4 Methods for cleaning up

Pick up and transfer to properly labeled containers. Keep in suitable, closed containers for disposal.

6.5 Additional advice

No further information is available.

Trade Name: MP – 2 Gold Powder

Date: January 2020

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling Advice on safe handling

Avoid contact with skin and eyes. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Handle as an industrial chemical. Keep container tightly closed. Keep away from oxidizing agents.

7.2 Conditions for safe storage, including any incompatibilities

Storage condition

Advice on a common storage. Keep in a dry, cool and well-ventilated place.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Guidelines

| Ingredients | CAS no. | Form of exposure |
|-------------------|-----------|---------------------|
| Copper | 7440-50-8 | TWA (dust and mist) |
| Zinc | 7440-66-6 | TWA (dust) |
| Silica | 7631-86-9 | TWA |
| Octadecanoic acid | 57-11-4 | TWA |

8.2 Engineering measures

Use with local exhaust ventilation.

8.3 Personal protective equipment

Eye protection: Safety Glasses Goggles

Hand protection: Neoprene gloves

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: If handling heated or misted product in a poorly ventilated area, wear a properly fitted respirator (NIOSH) during exposure.

Hygiene measures: Clean long legged, long sleeved work clothes.
Material Safety Data Sheet

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Trade Name: MP – 2 Gold Powder

Date: January 2020

9.1 Information on basic physical and chemical properties

| | |
|--|---------------------------------------|
| Form | powder |
| Colour | gold |
| Odour | odourless |
| Odor Threshold | No data available |
| Flash point | No data available |
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |
| Flammability (solid, gas) | combustible solids , combustible dust |
| pH | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Vapour pressure | No data available |
| Evaporation rate | No data available |
| Density | 8.5 g/cm |
| Bulk density | Not applicable |
| Water solubility | Insoluble |
| Partition coefficient octanol/water | No data available |
| Solubility in other solvents | No data available |
| Viscosity, dynamic | No data available |
| Relative vapour density | No data available |

SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid

None known

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

None expected

Chemical stability

Stable; polymerization will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

Acute oral toxicity (Component)

Moderately toxic after single ingestion - Copper

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade Name: MP – 2 Gold Powder

Date: January 2020

LD50 Rat
Dose > 2,000 mg/kg – Zinc
LD50 Rat
5,000 mg/kg – Silica

Acute dermal toxicity (Component) LD50 Rabbit
Dose > 5,000 mg/kg - Silica

Acute inhalation toxicity (Component) LC50 (Rat): 5.41 mg/l
Exposure time: 4 hrs - Zinc
(Rat): 0.139 mg/l
Exposure time: 4 hrs - Silica

Skin Corrosion / Irritation: Not classified based on available information
Skin irritation component: Copper – may cause skin irritation in susceptible persons
Serious eye damage / eye irritation: Causes serious eye irritation
Carcinogenicity: Not classified based on available information
Reproductive toxicity: Not classified based on available information

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information (Component)

Copper: M-factor (Acute Aquatic Toxicity) : 10
Very toxic to aquatic life with long lasting effect

Zinc: Very toxic to aquatic life with long lasting effect

Silica: Toxicity to daphnia and other aquatic invertebrates: (Daphnia) 7, 600 mg/l
Toxicity to algae: (Chlorella pyrenoidosa) : 440 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

Further information

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

49 CFR: Not Regulated

International Regulations:

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Date: January 2020

IATA – DGR

UN/ID no: UN 3077

Proper Shipping name: Environmentally hazardous substance, solid, n.o.s.
(Copper metal powder)

Class: 9

Packing group: III

Labels: Miscellaneous Dangerous Goods

Packing instruction (cargo aircraft): 956

Packing instruction (passenger aircraft): 956

IMDG-Code

UN number: UN 3077

Proper Shipping name: Environmentally hazardous substance, solid, n.o.s.
(Copper metal powder)

Class: 9

Packing group: III

Labels: 9

EmS Code: F-A, S-F

Marine pollutant: Yes

Remarks: IMDG Code segregation group 7 – Heavy metals and their salts

Remarks: For single packaging $\leq 5L / 5 \text{ kg}$, or combination packagings containing inner packagings $\leq 5L / 5 \text{ kg}$ net per inner packaging, SV 375 ADR, 2.10.2.7 IMDG Code, A197 IATA-DGR may be applied.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied

SECTION 15. REGULATORY INFORMATION

EPCRA – Emergency Planning and Community Right - to - Know

CERCLA Reportable Quantity

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Date: January 2020

Copper

CAS no. 7440-50-8

Component RQ (lbs) – 5000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

Combustible dust, Acute toxicity (any route of exposure), serious eye damage or eye irritation

SARA 313

The following components are subject to reporting levels established by SASA Title III, section 313

Copper

CAS no: 7440-50-8

>=70 - < 90%

Zinc

CAS no: 7440-66-6

>=10 - <20%

Clean Air Act

This product neither contains, nor was manufactured with Class 1 or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean air Act section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, section 311, Table 117.3

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Date: January 2020

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Copper

CAS no. 7440-50-8

79.6%

Zinc

CAS no. 7440-66-6

14.3%

US State Regulations

Massachusetts Right To Know

Copper 7440-50-8

Zinc 7440-66-6

Silica 7631-86-9

Pennsylvania Right To Know

Copper 7440-50-8

Zinc 7440-66-6

Silica 7631-86-9

California Prop. 65



WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Copper 7440-50-8

Zinc 7440-66-6

Silica 7631-86-9

Safety data sheet in accordance with regulation (EC) No 1907/2006

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California Permissible Exposure limits for Chemical Contaminants

| | |
|--------|-----------|
| Copper | 7440-50-8 |
| Zinc | 7440-66-6 |
| Silica | 7631-86-9 |

The ingredients of this product are reported in the following inventories:

DSL: All components of this product are on the Canadian DSL
TSCA: On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

| | |
|------|-----------|
| Zinc | 7440-66-6 |
|------|-----------|

SECTION 16 OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.