MAGIC METALLICS METALS

SAFETY DATA SHEET (SDS)

Version: 02
Date of Issue: June 14, 2022

According to: OSHA Hazard Communication Standard 29 CFR 1910.1200(g) Rev. 2012

Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name: Magic Metallics Metals (Copper Metallic [MM102], Dark Bronze Metallic [MM103], Gold Metallic [MM105], Steel Metallic [MM106])

Product Description: Liquid acrylic paint formulations (2 oz, 8 oz) that contain ground metal particles. The product is intended to be applied with a brush and can be made to oxidize with the Magic Metallics Oxidizers

1.2 Relevant identified uses of the substance or mixture

Relevant identified use(s): Use product for its intended purpose as an art material.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer Address: 4077 Weaver Court South
Hilliard, OH 43026
Supplier Telephone: 614-675-2031
Email: technical@maycocolors.com

1.4 Emergency telephone number

Emergency Telephone: Contact national poison control centre (+1-800-222-1222).

Section 2 – Hazard(s) Identification

2.1. Classification of the substance or mixture

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Health	Environmental	Physical
Not classified	Aquatic Chronic 2	Not classified

2.2. Label elements

Label Pictogram:
Signal Word: None required.
Hazard Statement: H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement:
P273: Avoid release to the environment.
P391: Collect spillage.
P501: Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards

- No other hazards have been identified for this product.

Section 3 – Composition / Information on Ingredients[a,b]

Mixture

Chemical Name	CAS No.	EINECS No.	% Weight
Copper	7440-50-8	231-159-6	up to 7.65%

[a]The remaining ingredients in the product are either considered non-hazardous or are below the GHS cut-off values/concentration limits in the final product and were therefore not disclosed in the SDS.

[b]The product contains fully reacted/cured and highly stable polymers with negligible residual monomers present.

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eye contact: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and immediately flush eyes with water. Seek medical attention if in doubt.

Skin contact: No specific first aid measures are required. Wash skin thoroughly with soap and water. If skin irritation or rash occurs, get medical attention. Launder contaminated clothing before reuse.

Inhalation: No specific first aid measures are required. Inhalation route of exposure is not anticipated with intended use. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if in doubt.

Ingestion: No specific first aid measures are required. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if in doubt.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to **Section 11** - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Not required.

Section 5 – Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding area if material is involved in a fire (e.g., water fog, water spray, foam, dry chemical or carbon dioxide).

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards: Container may rupture on heating. See also **Section 10** - Stability and Reactivity.

5.3 Advice for firefighters

- Wear a self-contained breathing apparatus.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment (PPE) and emergency procedures

Personal Precautions: Ventilate area if spilled in confined space or other poorly ventilated areas. Observe PPE advice in **Section 8** – Exposure Controls/Personal Protection.

Emergency Procedures: No specific precautions required**.** Keep unauthorized personnel away.

6.2 Environmental precautions:

- Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities. Prevent further leakage or spillage if it is safe to do so.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures: Contain spill if safe to do so. Collect recoverable product and place in a designated container for recycle and/or disposal. Use care to avoid generation of spray/mist. Dispose of contents/container in accordance with local/regional/national/international regulations.

6.4 Reference to other sections

- Refer to **Section 8** - Exposure Controls/Personal Protection and **Section 13** – Disposal Considerations.

Section 7– Handling and Storage

7.1 Precautions for safe handling

- Avoid contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Provide adequate ventilation. Observe good industrial hygiene practices. When using do not eat, drink or smoke. Wear appropriate personal protective equipment. Keep containers closed when not in use. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse.
- Refer to **Section 8** - Exposure Controls/Personal Protection

7.2 Conditions for safe storage, including any incompatibilities

- Keep from freezing. Do not store in open, unlabeled or mislabeled containers. Store away from incompatible materials. See **Section 10** for incompatible materials.

7.3 Specific end use(s)

- Refer to **Section 1.2** - Relevant identified uses.

Section 8– Exposure Controls / Personal Protection

8.1 Control Parameters:

Occupational exposure limits: Airborne/respirable particles are not foreseeable under conditions of normal use. See **Section 1 - Identification of the Substance/Mixture and of the Company/Undertaking** for additional information.

Chemical Name	CAS No.	ACGIH TLVs TWA (mg/m^3)	OSHA PELs TWA (mg/m^3)	NIOSH RELs TWA (mg/m^3)
Copper	7440-50-8	1	1	1

8.2 Exposure Controls:

Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

Respiratory: Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Eyes/Face:	If contact is likely, safety glasses with side shields are recommended.
Hands:	Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.
Body/Skin:	Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.
Thermal Hazards:	None known.
Environmental Exposure Controls:	Not available.
Hygiene measures:	Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

Appearance: **Physical state:** **Form:** **Color:** **Odor:**	 Liquid Liquid Color matches name No odor	**Partition Coefficient n-octanol/water:** **Auto-ignition temperature:**	 Not available Not available
Odor threshold:	Not available	**Decomposition temperature:**	Not available
pH (as supplied):	8	**Dynamic viscosity:**	Not available
Freezing point:	Not available	**Molecular weight:**	Mixture, not available
Boiling point:	Not available	**Taste:**	Not available
Flash point:	Not available	**Explosive properties:**	Not available
Evaporation rate:	Not available	**Oxidizing properties:**	Not available
Flammability:	Not available	**Surface tension:**	Not available
Upper/lower explosive limits:	Not available	**Gas group:**	Not available
Vapor pressure:	Not available	**pH (as solution):**	Not available
Water solubility:	Water based solution	**VOC:**	Not available
Solubility (other):	Not available	**Particle size range:**	Not available
Vapor density (Air = 1):	Not available	**Specific gravity (Water = 1):**	1.117
Relative density:	Not available		

9.2 Other information

- No data available.

Section 10 – Stability and Reactivity

10.1 Reactivity

- May oxidize.

10.2 Chemical stability

- This material is considered stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

- None known.

10.4 Conditions to avoid

- None known.

10.5 Incompatible materials

- Strong acids.
- Strong bases.
- Strong oxidizing agents.
- Strong reducing agents.

10.6 Hazardous decomposition products

- Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids.

Section 11 – Toxicological Information

Likely routes of exposure: Skin/eye contact.
Potential signs and symptoms:

Acute oral toxicity:	The product is practically non-toxic based on available data. The oral acute toxicity estimate (ATE) for the whole product is >2098 mg/kg.
Acute dermal toxicity:	Practically non-toxic based on available data.
Acute inhalation toxicity:	Practically non-toxic based on available data.
Skin corrosion/irritation:	The components in this product are not irritating to the skin based on available data.
Serious eye damage/irritation:	The components in this product are not irritating to the eyes based on animal studies and available data.
Respiratory or skin sensitization:	The components in this product are not sensitizing to the skin or respiratory system based on available data.
Mutagenicity:	No components are classified with respect to mutagenicity by the IARC, NTP, and ACGIH.
Carcinogenicity:	The components in this product are not carcinogenicity hazards based on available information, human and/or animal studies.
Reproductive Toxicity:	The components in this product are not reproductive hazards based on available information, human and/or animal studies.
Specific target organ toxicity (single exposure):	The components in this product are not single exposure specific target organ toxicity hazards based on available information, human and/or animal studies.
Specific target organ toxicity (repeated exposure):	The components in this product are not repeated exposure specific target organ toxicity hazards based on available information, human and/or animal studies.
Aspiration hazard:	The components in this product are not aspiration toxicants based on available

information, human and/or animal studies.

References: ECHA. 2022. REACH Registered Substances Database.

Section 12 – Ecological Information

12.1 Toxicity

- Copper (CAS No. 7440-50-8) is classified for Aquatic Chronic 2 – H411: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

- No product data available.

12.3 Bioaccumulative potential

- Copper (CAS No. 7440-50-8) is not considered to be bioaccumulative.

12.4 Mobility in Soil

- No data available.

12.5 Results of PBT and vPvB assessment

- No data available.

12.6 Other adverse effects

- No further data available.

References: ECHA. 2022. REACH Registered Substances Database.

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Preparing wastes for disposal: Use product for its intended purpose or recycle if possible. Dispose of waste in accordance with local, regional, national, and/or international regulations. The empty container has residues which may exhibit hazards of the product.

Contaminated Packaging: Container packaging is not expected to exhibit hazards.

Section 14 – Transport Information

Note: This product is not regulated as dangerous goods for transport. Review classification requirements before shipping materials at elevated temperatures.

	ADR/RID/ADNR/DOT	IMO/IMDG	ICAO/IATA
14.1 UN number	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	Not regulated	Not regulated	Not regulated
14.3 Transport hazard class(es)	Not regulated	Not regulated	Not regulated
14.4 Packing group	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

Section 15 – Regulatory Information

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

United States

Federal Regulations:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):

No components in this product are subject to reporting under CERCLA, with the following exceptions:

Chemical Name	CAS No.	CERLA RQ
Disodium phosphate	7558-79-4	5000 lbs
Copper [a]	7440-50-8	5000 lbs
Zinc	7440-66-6	1000 lbs

[a]: No reporting of releases of this CERCLA hazardous substance is required under CERCLA if the diameter of the pieces of the solid metal released is larger than 100 micrometers (0.004 inches).

Clean Water Act (CWA): No components in this product are listed as toxic pollutants.

Clean Air Act (CAA): No components in this product listed under the CAA.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA 302 Components: No components in this product are subject to reporting requirements of S.302.

SARA 304 Emergency Release Notification: No components in this product are subject to reporting requirements of S.304.

SARA 311/312 Hazards: None.

SARA 313 Components: Copper (CAS No. 7440-50-8), and zinc (CAS No. 7440-66-6) are subject to the reporting requirements of SARA 313. No other components in this product are subject to reporting requirements of S.313.

Toxic Substances Control Act (TSCA): All components are listed on the non-confidential TSCA inventory or are exempt. This product contains one or more polymers manufactured under the polymer exemption rule.

State Regulations:

California:

- Trace levels of formaldehyde, 1,4-dioxane, acetaldehyde, ethylene oxide, propylene oxide, lead and/ or cadmium among other undisclosed trace Prop 65 ingredients may be present in the product. Formaldehyde (gas) (CAS No. 50-00-0), 1,4-dioxane (CAS No. 123-91-1), acetaldehyde (CAS No. 75-07-0), ethylene oxide (CAS No. 75-21-8), propylene oxide (CAS No. 75-56-9), lead and lead compounds, and cadmium and cadmium compounds are listed on the California Proposition 65 List as chemicals known to the State of California to cause cancer and/or reproductive/developmental toxicity. The trace levels of these chemicals in the product are not expected to be a cause for concern or require warnings as per California Proposition 65.

- Silica [listed as silica, crystalline (airborne particles of respirable size)], present in all color formulations, and carbon black (CAS No. 1333-86-4) (airborne, unbound particles of respirable size), present in DARK BRONZE METALLIC (MM103), are listed on the California Proposition 65 List as chemicals known to the State of California to cause cancer. Given the amorphous form of silica in the product and/or the physical form of the product (i.e., liquid paint), airborne respirable particles would not be released from the product and therefore the listed forms of silica, crystalline and carbon black are not relevant for the product.

International

IARC: Silica dust (CAS No 14808-60-7) is listed as a Group 1 carcinogen and carbon black (CAS No. 1333-86-4) is listed as a Group 2B carcinogen according to IARC. No other components in this product are classified with respect to carcinogenicity.

15.2 Chemical Safety Assessment

- None available for the components in this product.

Note: The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

Section 16 – Other Information

List of acronyms and abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists	mg/L: Milligrams per Liter
ADR: International Carriage of Dangerous Goods by Road	NIOSH REL: National Institute for Occupational Safety and Health recommended exposure limit
ADNR: Regulation for the carriage of dangerous substances on the Rhine	NTP: National Toxicology Program
ATE: Acute Toxicity Estimate	OSHA: Occupational Safety and Health Administration
CAA: Clean Air Act	PBT: Persistent, Bioaccumulative and Toxic
CAS: Chemical Abstract Service Number	PEL: Permissible Exposure Limit
CERCLA: Comprehensive Environmental Response and Liability Act	PPE: Personal Protective Equipment
CWA: Clean Water Act	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaft maximale arbeitsplatz-konzentration	RID: International rule for transport of dangerous
ECHA: European Chemicals Agency	SARA: Superfund Amendment and Reauthorization Act
EINECS: European Inventory of Existing Chemical Substances	SDS: Safety Data Sheet
GHS: Global Harmonized System	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TQ: Threshold Quantity
IATA: International Air Transport Association	TSCA: Toxic Substances Control Act
ICAO: International Civil Aviation Organization	TWA: Time Weighted Average (8-hour)
IMDG: International Maritime Dangerous Goods	UN: United Nations
IMO: International Maritime Organization	vPvB: very Persistent, very Bioaccumulative
MARPOL: Maritime Pollution	

References:

- European Chemicals Agency (ECHA) Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- International Agency for Research on Cancer (IARC).

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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