

SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 12-Dec-2022 Revision Date 12-Dec-2022 Revision Number 1

1. Identification

Product identifier

Product Name 100P Industrial Paint Marker / 100P Fine Line Industrial Paint

Marker / 130P Industrial Paint Marker - Silver and Gold

Other means of identification

Product Code(s) 10210, 10214, 10210FL, 10214FL, 10310, 10314

UN/ID no UN1210

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Solvent based marker

Restrictions on use Keep away from children

Details of the supplier of the safety data sheet

Supplier Address

U-Mark, Inc 102 Iowa Ave. Belleville, IL 62220 TEL: 618-235-7500

E-mail compliance@umarkers.com

Emergency telephone number

Emergency telephone 24-hour Emergency Phone: Infotrac 1-800-535-5053 (USA & Canada), 1-352-323-3500

(International)

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 3

Label elements

Warning

Hazard statements

Flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. May cause drowsiness or dizziness.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust, fume, gas, mist, vapors and spray. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take action to prevent static discharges. Wear protective gloves, eye protection and face protection. Keep cool.

Precautionary Statements - Response

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water and then shower.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Fire

In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant.

Other information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

Unknown acute toxicity

50 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

3. Composition/information on ingredients

Substance

Not applicable.

Mixture_

Chemical name	CAS No	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Propylene glycol monomethyl ether	107-98-2	50-100	<u>-</u>	-
Copper	7440-50-8	10-25	-	-
Aluminum powder (stabilized)	7429-90-5	10-25	-	-
Zinc	7440-66-6	2.5-10	-	-

4. First-aid measures

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. If symptoms

persist, call a physician. If breathing has stopped, give artificial respiration. Get medical

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attention immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

breathing vapors or mists.

Most important symptoms and effects, both acute and delayed_

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed_

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing

vapors or mists.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

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Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities_

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters_

Exposure Limits

Chemical name	ACGIH TLV		OSH	A PEL		NIOSH
Propylene glycol monomethyl ether 107-98-2	STEL: 100 ppm TWA: 50 ppm		(vacated) TV (vacated) S	WA: 100 ppm VA: 360 mg/m ³ TEL: 150 ppm EL: 540 mg/m ³		TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
Copper 7440-50-8	TWA: 0.2 mg/m³ fume		TWA: 0.1 r TWA: 1 mg/m (vacated) TWA	mg/m³ fume ³ dust and mist A: 0.1 mg/m³ Cu ime, mist	TWA:	100 mg/m³ dust, fume and mist 1 mg/m³ dust and mist A: 0.1 mg/m³ fume
Aluminum powder (stabilized) 7429-90-5	TWA: 1 mg/m³ resp particulate matt		TWA: 5 mg/i fra (vacated) TWA d (vacated) T	/m³ total dust m³ respirable ction : 15 mg/m³ total ust WA: 5 mg/m³ le fraction		: 10 mg/m³ total dust 5 mg/m³ respirable dust
Chemical name	Alberta	Britis	h Columbia	Ontario	***	Quebec
Propylene glycol monomethyl ether 107-98-2	TWA: 100 ppm TWA: 369 mg/m³ STEL: 150 ppm STEL: 553 mg/m³		'A: 50 ppm L: 100 ppm	TWA: 50 pp STEL: 100 p		TWA: 100 ppm TWA: 369 mg/m³ STEL: 150 ppm STEL: 553 mg/m³
Copper 7440-50-8 Aluminum powder (stabilized)	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ TWA: 10 mg/m ³	TWA	A: 1 mg/m ³ x: 0.2 mg/m ³ x: 1.0 mg/m ³	TWA: 0.2 mg/ TWA: 1 mg/ TWA: 1 mg/	m³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ TWA: 10 mg/m ³
7429-90-5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. 1.0 mg/m	i vvA. i ilig/	***	1 447 t. 10 mg/m

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Propylene glycol monomethyl ether	TWA: 50 ppm STEL: 100 ppm			
Copper	TWA: 0.2 mg/m ³			
Aluminum powder (stabilized)	TWA: 1 mg/m ³			

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Propylene glycol monomethyl	TWA: 100 ppm	TWA: 50 ppm	TWA: 100 ppm	TWA: 100 ppm
ether	STEL: 150 ppm	STEL: 100 ppm	STEL: 150 ppm	TWA: 360 mg/m ³
				STEL: 150 ppm
				STEL: 450 mg/m ³
Copper	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³
	TWA: 1 mg/m ³		TWA: 1 mg/m ³	TWA: 1 mg/m³
	STEL: 3 mg/m ³		STEL: 0.6 mg/m ³	STEL: 0.2 mg/m ³
	STEL: 0.6 mg/m ³		STEL: 3 mg/m ³	STEL: 2 mg/m ³
Aluminum powder (stabilized)	TWA: 10 mg/m ³	TWA: 1 mg/m ³	TWA: 10 mg/m ³	
	STEL: 20 mg/m ³		STEL: 20 mg/m ³	

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

No data available

9. Physical and chemical properties

Information on basic physical and chemical properties_

Appearance

Physical state
Color
Varies
Odor
Alcohol-like

Odor threshold No information available

Property Values Remarks • Method No data available

Melting point / freezing point

Initial boiling point and boiling range120 °C / 248 °F Flash point 31 °C / 87.8 °F

Evaporation rateNo data availableFlammabilityNo data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableVapor densityNo data availableRelative densityNo data available

Water solubility Miscible in water

Solubility(ies)No data availablePartition coefficientNo data availableAutoignition temperatureDoes not igniteDecomposition temperatureNo data availableKinematic viscosityNo data availableDynamic viscosityNo data available

Other information_

Explosive properties

Oxidizing properties

No information available.

No information available.

No information available.

No information available

10. Stability and reactivity

Reactivity None under normal use conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks. Excessive heat.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation May cause drowsiness or dizziness. Specific test data for the substance or mixture is not

available. Harmful by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available. Harmful if swallowed. (based

on components).

Symptoms related to the physical, chemical and toxicological characteristics_

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. Coughing and/ or wheezing.

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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 1,393.80 mg/kg ATEmix (inhalation-dust/mist) 3.56 mg/l

Unknown acute toxicity

50 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol monomethyl ether	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 h
l _i			ļ.
Copper	-	-	> 5.11 mg/L (Rat) 4 h
Aluminum powder (stabilized)	-	-	> 0.888 mg/L (Rat) 4 h
Zinc	= 630 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure May cause drowsiness or dizziness. May cause respiratory irritation.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Propylene glycol monomethyl	-	LC50: =20.8g/L (96h,	=	EC50: =23300mg/L
ether		Pimephales promelas)		(48h, Daphnia magna)
107-98-2				
Copper	EC50: 0.0426 -	LC50: 0.0068 -	-	EC50: =0.03mg/L (48h,
7440-50-8	0.0535mg/L (72h,	0.0156mg/L (96h,		Daphnia magna)
	Pseudokirchneriella	Pimephales promelas)		
	subcapitata)	LC50: <0.3mg/L (96h,		
	EC50: 0.031 -	Pimephales promelas)		
	0.054mg/L (96h,	LC50: =0.2mg/L (96h,		
	Pseudokirchneriella	Pimephales promelas)		
	subcapitata)	LC50: =0.052mg/L (96h,		

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		Oncorhynchus mykiss)		
		LC50: =1.25mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =0.3mg/L (96h,		
		Cyprinus carpio)		
		LC50: =0.8mg/L (96h,		
		Cyprinus carpio)		
		LC50: =0.112mg/L (96h,		
		Poecilia reticulata)		
Zinc	EC50: 0.11 - 0.271mg/L	LC50: 2.16 - 3.05mg/L	-	EC50: 0.139 -
7440-66-6	(96h,	(96h, Pimephales		0.908mg/L (48h,
	Pseudokirchneriella	promelas)		Daphnia magna)
	subcapitata)	LC50: 0.211 -		
	EC50: 0.09 - 0.125mg/L	0.269mg/L (96h,		
	(72h,	Pimephales promelas)		
	Pseudokirchneriella	LC50: =2.66mg/L (96h,		
	subcapitata)	Pimephales promelas)		
		LC50: =30mg/L (96h,		
		Cyprinus carpio)		
		LC50: =0.45mg/L (96h,		
		Cyprinus carpio)		
		LC50: =7.8mg/L (96h,		
		Cyprinus carpio)		
		LC50: =3.5mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =0.24mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =0.59mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =0.41mg/L (96h,		
		Oncorhynchus mykiss)		

Persistence and degradability

No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Propylene glycol monomethyl ether	1
107-98-2	

Mobility in soil No information available. Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

Should not be released into the environment, Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

California waste information

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

130P Industrial Paint Marker – Silver and Gold

DOT

UN/ID no UN1210
Proper shipping name PRINTING INK

Transport hazard class(es) 3
Packing group III

Reportable Quantity (RQ) (Copper: RQ (kg)= 2270.00, Zinc: RQ (kg)= 454.00) Copper: RQ (lb)= 5000.00, Zinc: RQ

(lb) = 1000.00

Reportable quantity kg Copper: RQ (kg)= 9080.00, Zinc: RQ (kg)= 4540.00

(calculated)

Reportable quantity lbs. Copper: RQ (lb)= 20000.00, Zinc: RQ (lb)= 10000.00

(calculated)

Special Provisions B1, IB3, T2, TP1, 367

DOT Marine Pollutant PP
Marine pollutant Copper

Description UN1210, PRINTING INK, 3, III, Marine pollutant (Copper)

Emergency Response Guide 129

Number

TDG

UN/ID no UN1210
Proper shipping name PRINTING INK

Transport hazard class(es)

Packing group

III

Special Provisions

59, 142

Marine pollutant

Copper.

Description UN1210, Printing ink, 3, III

IATA

UN number or ID number UN1210
UN proper shipping name Printing ink

Transport hazard class(es) 3
Packing group III
ERG Code 3L

Special Provisions A3, A72, A192

Description UN1210, Printing ink, 3, III

IMDG

UN number or ID number UN1210
UN proper shipping name PRINTING INK

Transport hazard class(es) 3
Packing group III
EmS-No F-E, S-D

Special Provisions 163, 223, 367, 955

Marine pollutant NP

Description UN1210, PRINTING INK, 3, III, (31°C C.C.)

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status

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US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
Copper - 7440-50-8	1.0	
Aluminum powder (stabilized) - 7429-90-5	1.0	
Zinc - 7440-66-6	1.0	

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8	-	Х	Х	-
Zinc 7440-66-6	-	X	Х	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Zinc 7440-66-6	1000 lb	-	RQ 454 kg final RQ RQ 1000 lb final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol monomethyl	X	X	X
ether			
107-98-2			
Aluminum powder (stabilized)	X	X	X
7429-90-5			
Copper	X	X	X
7440-50-8		ļ	
Zinc	X	X	X
7440-66-6			

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U.S. EPA Label Information_

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 2 Flammability 3 Instability 0 Special hazards - HMIS Health hazards 2 Flammability 3 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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.

End of Safety Data Sheet