SAFETY DATA SHEET

Michael Harding Oil Colors

Colors containing hazardous compounds

1. Identification of the Preparation and of The Company

Product Name and/or code:	Michael Harding Oil Colors *Colors containing hazardous compounds*
Effective Date:	11-Apr-24
Manufacturer:	Michael Harding Art Formulas Ltd Unit K Springvale Industrial Estate Cwmbran, UK NP44 5BE
Information Contact:	(+)44(0)1633484700 1-(978) 376-2497
Emergency Contact:	Poison Control Center 800-822-1222 (USA)
Product Use:	**ART MATERIAL - CONSUMER PRODUCT.** Artist professional products, pigment dispersions and mediums. For application with brush to a substrate. Not intended for spray application, sanding, or other operations which generate dust or airborne concentrations.

2. Hazards Identification

Emergency Overview

Warning! Harmful if swallowed. Harmful or fatal if ingested. May cause skin irritation and allergic reaction.

Classification of the Product:

Label Elements — **Conforms to ASTM D-4236**

Hazard Pictograms

GHS08 GHS07 GHS09

Signal Word: **WARNING!**

Hazard Statement:

<u>Colors containing Cadmium and Cadmium compounds (Pigment mixture):</u> Cancer hazard. Dried film of this paint may be harmful if eaten or chewed. Harmful if swallowed.

<u>Colors containing Nickel and Nickel compounds (Pigment mixture):</u> May cause skin irritation and allergic reaction.

Precaution Statement: Do not ingest. Do not expose to direct flame. Handle with care. Avoid eye and skin contact. Wash thoroughly after handling. Do not eat or smoke while using this product. Wear gloves. Use with adequate ventilation. To avoid spontaneous combustion during temporary storage, soak soiled rags and waste immediately after use in a water-filled, closed metal container.

Children's Statement: **KEEP OUT OF THE REACH OF CHILDREN.**

NFPA

Health: 3 --> *Cadmium* 2 --> *Nickel.*

Flammability: 0

Reactivity : 0

HMIS	Health : 2 Flammability: 0 Physical Hazard: 0

Studies have not been performed on this particular mixture. The information below is based on data on the individual hazardous ingredient.

Cadmium Compounds: May cause cancer (H330); Causes damage to organs through prolonged or repeated exposure (H372); Suspected of causing genetic effects (H341); Suspected of damaging fertility or the unborn child (H361); May cause respiratory irritation (H335); Toxic if swallowed (H301); Very toxic to aquatic life with long lasting effects (H410).

Nickel Compounds : Suspected of causing cancer (H351); May cause an allergic reaction (H317); May cause an allergic or asthma symptoms or breathing difficulties if inhaled (H334); Harmful to aquatic life with long lasting effects (H412).

Obtain special instructions before use. (P201)
Avoid breathing dust/fume/gas/mist/vapors/spray. (P201)

3.Composition/Information on Ingredients:

Substances:

Mixture of the following chemicals:	Proprietary Ingredients (Mixture) < 99 % Proprietary Pigment (Mixture) < 70% Proprietary Cadmium Pigment (Mixture) < 50 % Proprietary Nickel Pigment (Mixture) < 30%

4. First Aid Measures

Inhalation	If affected, remove to fresh air. If symptoms persists, contact a physician. May cause an allergic or asthma symptoms or breathing difficulties if inhaled, if symptoms persist, contact a physician.
Skin Contact	Wash the affected area thoroughly with plenty of soap and water. May cause an allergic reaction, if symptoms persist, contact a physician.
Eye Contact	Carefully flush with water for 15 minutes, lifting the upper and lower lids until no evidence of product remains. If irritation occurs, contact a physician.
Ingestion	Do not induce vomiting. Contact a physician immediately. Rinse mouth with water. Ingested cadmium or nickel may lead to spontaneous vomiting.

5. Firefighting Measures

Extinguishing Media	Water, foam, carbon dioxide or dry chemical equipment.
Fire/Explosion Hazards	This product is not known to present any fire hazard.
Flashpoint/Flammability	This product is not known to be flammable.

6. Accidental Release Measures

Methods and Materials for Containment and Cleaning up	Contain spill. Recover as much as possible. Absorb remainder with an inert material. Place into closed container and store in a safe location to await disposal. Wash the spill area with soap and water.

7. Handling and Storage

Safe Handling	Use under ventilated conditions. Avoid eye and skin contact. For personal protection, we recommend that employees wash thoroughly after handling product. Always wash before eating, smoking or using toilet facilities. Keep container closed when not in use. **Keep container upright to prevent leakage.**
Environmental precautions	No product should be released to the environment. Keep container closed when not in use. Keep container upright to prevent leakage.
Storage	Keep the product in a cool dry ventilated area. Keep away from fire and heating sources. Store between 50-100 deg. F., ideally 70 deg. F. **To avoid spontaneous combustion during temporary storage, soak soiled rags and waste immediately after use in a water-filled, closed metal container.**

8. Exposure Controls/Personal Protection

Personal Protective Equipment	Wear goggles where spills or splashing may occur. Wear water resistant impervious gloves if handling bulk amounts.

Exposure Limits

Substance	OSHA PEL	NIOSH REL	ACGHI TLV
	8 hr TWA	Up to 10-hour TWA	8-hour TWA
	(ST) STEL (c)Ceiling		
Cadmium Dust	0.2 mg/m^3; 0.6 mg/m^3 (Acceptable Ceiling)	*IDHL : None established; NIOSH considers cadmium compounds to be potential occupational carcinogens as defined by the OSHA carcinogen policy [29 CFR 1990].	*Refer to Cadmium*
Cadmium Fume	0.1 mg/m^3; 0.3 mg/m^3 (Acceptable Ceiling)		
Cadmium compounds	0.005 mg/m^3		0.01mg/m^3 (total 0.002 mg/m^3 (resp)
Nickel, Soluble compounds	0.05 mg/m^3	Ca 0.0015 mg/m^3	Soluble inorganic compounds: 0.1 mg/m^3 (IHL)

Respiratory and Ventilation	Wear approved NIOSH/MSHA respirator if exposure to mist or vapor exceed applicable PEL/TLV limits. Use in accordance with manufacturer's use limitations and OSHA STANDARD 1910-34. Local ventilation may be used to prevent routine inhalation.
Skin Protection	Wear water resistant impervious gloves if handling bulk amounts.

Eye Protection	Wear goggles where spills or splashing may occur.

9. Physical and Chemical Properties

Appearance	Paste - Various Colors
Physical State	Thick liquid
Color	Various
Odor	Not determined
Odor Threshold	Not determined
Boiling Point	Not determined
Freezing Point	Not determined
State (pH)	Not determined
Specific Gravity	Not determined
Viscosity	Paste
Flashpoint	Not flammable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Solubility in water	Miscible

10. Stability and Reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Avoid all sources of ignition (Heat, sparks and flames). Avoid creating or accumulating dusts. Keep away from direct sunlight. Avoid high temperatures.
Incompatible materials	Keep away from sources of ignition. Incompatible with strong oxidizing agents.
Hazardous Decomposition Products	May give off toxic fumes is case of fire, including lead fumes. Decomposition products depend on conditions.

11. Toxicological Information

Analytical Studies have not been performed on this particular mixture (all colors). The information below is based on data and toxicological review on the individual hazardous ingredients, proprietary ingredients and mode of application.

When used and handled according to specifications, the product is not expected to have any harmful effects.

Health Effects	Dried film of this paint may be harmful if eaten or chewed.

Acute Toxicity - The toxicity values listed below are based on published literature values for the pure components.

Acute Toxicity	None known for this mixture. Cadmium - Oral: LD50 (Rat): 225 mg/kg LD50 (Mouse): 890 mg/kg Cadmium - Dermal: Not Available Cadmium - Inhalation: LC50 (Rat): 25 mg/kg - 30 mins Nickel - Oral: LD50 (Rat): 9,000 mg/kg Nickel - Dermal: Not Available

	Nickel - Inhalation: Not Available
Eye Effects	This product is not considered as being an eye irritant. Direct contact with eye may cause mild eye irritation. This product is not a primary eye irritant.
	Pigment mixture compounds: May cause irritation or redness.
Skin Effects	Direct contact with skin may result in little or no irritation. Prolonged contact with skin may cause an allergic reaction. This product is not a primary skin irritant.
	Pigment mixture compounds: Prolonged contact may cause irritation or redness.
Inhalation	May cause mild respiratory irritation at higher temperatures.
	Pigment mixture compounds: Overexposure or prolonged exposure may be harmful.
Sensitization	Not likely to occur.
Ingestion	Harmful if swallowed. May cause irritation of mouth, throat, and stomach. May result in nausea and vomiting.
Chronic Effects	**When used and handled according to specifications, the product does not have any harmful effects. None known or reported by the manufacturer.**
	Cadmium compounds
NTP	Known to be human carcinogen
IARC	Group 1: Carcinogenic to humans
ACGIH	A2: Suspected human carcinogen
OSHA	Listed
	Nickel compounds
NTP	Reasonably anticipated to be a human carcinogen
IARC	Group 2B: Possible carcinogenic to humans
ACGIH	Not listed
OSHA	Listed

12. Ecological Information

Toxicity:	Not expected to be harmful to the environment. No product should be released to the environment. It is not expected to have significant environmental effects. No significant effects on aquatic organisms are expected.
Aquatic toxicity	Studies have not been performed on this particular mixture.
Persistence and degradability	No information available for this mixture.
Bioaccumulate potential	No information available for this mixture.
Mobility in soil	No information available for this mixture.
Persistent, Bioaccumulate and Toxic (PBT)	No information available for this mixture.

Very Persistent and Very Bioaccumulate (vPvB)	No information available for this mixture.
Additional ecological information	As a general rule, no product should be released to the environment. The product should not be allowed to enter drains, water courses, or be deposited where it can affect ground or surface water.

When used and handled according to specifications, the product does not have any harmful effects according to past experience and the information provided.

13. Disposal Considerations

Dispose of all waste material in accordance with all applicable federal, state and local regulations for the disposal of aqueous polymer waste. Outside North America, all relevant national and local legislation must be complied with.

14. Transport Information

Art Material - CONSUMER PRODUCT

Based on the generic category of some of the components listed in section 3, a hazardous categorization could be applied to this mixture. However, per the information supplied by the manufacturer, the component pigment mixtures used in these paints are not classifiable as dangerous goods under transport regulations.

DOT	Not classified as dangerous goods under transport regulations
IMDG	Not classified as dangerous goods under transport regulations
ICAO/IATA	Not classified as dangerous goods under transport regulations

15. Regulatory Information

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

SARA	Not applicable to this mixture.
Section 355 (extremely hazardous substances)	Not applicable to this mixture.
Section 313 (specific toxic chemical listing)	Not applicable to this mixture.
TSCA (Toxic Substance Control Act)	All ingredients are listed.
California Proposition 65	⚠ **WARNING:** This product can expose you to chemicals including cadmium compounds, nickel compounds, and addiitonal trace heavy metals, which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Carcinogenicity categories	Refer to section 11.
EPA (Environmental Protection Agency)	Not applicable to this mixture.
TLV (Threshold Limit Value established by ACGIH)	Not applicable to this mixture. Refer to section 8 for further information on individual substances of this mixture.
NIOSH (National Institute for Occupational Safety & Health)	Not applicable to this mixture.

OSHA (Occupational Safety & Health Administration)	Not applicable to this mixture.

16. Other Information

Product List

Refer to attached list.

The information contained in this Safety Data Sheet was compiled using the latest and most reliable information available to the preparer from the manufacturer. The information is provided without any warranty, express or implied regarding its correctness or accuracy nor will the manufacturer assume any liability for any loss or damage arising out of the use of this information including without limitation direct or indirect losses or expenses. To the extent permitted by law, no warranty expressed or implied regarding the product described herein shall be created by or inferred from any state or omission for this SDS. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage or expense whatsoever arising out of the product's improper use.

Abbreviations and acronyms:

NFPA (SCALE 0-4) National Fire Protection Association (USA)

Health: 3	**Warning** - Corrosive or toxic. Avoid skin contact or inhalation.
Health: 2	**Warning** - May be harmful if inhaled or absorbed.
Fire: 0	No combustible.
Reactivity: 0	Not reactive when mixed with water.

HMIS (SCALE 0-4) Hazardous Materials Identification System (USA)

Health: 2	**Moderate Hazard.** Temporary or minor injury may occur.
Fire: 0	**Slight Hazard.** Materials that will not burn.
Physical Hazard: 0	**Minimal Hazard.** Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-explosives.

Exposure Limits

TWA - Time Weighted Average (8 hr.)
STEL - Short Time Exposure Limit (15 min.)
REL - Recommended Exposure Limit
PEL - Permissible Exposure Limit
IDLH - Immediately Dangerous to Life or Health