



SAFETY DATA SHEET
MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING MERCURY COMPOUND

01597-1193

HAR1490- A
 June 1, 2015
 Page 1 of 6

1. Identification of the Preparation and of The Company

Product Name and/or code:	MICHAEL HARDING ARTIST OIL COLORS - COLORS CONTAINING MERCURY COMPOUND
Effective Date:	1-Jun-15
Manufacturer:	Michael Harding Art Materials Ltd. 36 Springdale Industrial Estate Cwmbran, Gwent NP44 -5BD, Wales
Information Contact:	North America: 978-549-4029 UK/Europe: 44 (0) 1633 - 484-700
Emergency Contact:	Contact your local Poison Control Center
Product Use:	ART MATERIAL - Consumer Product

2. Hazards Identification

Information pertaining to particular dangers for man and environment.	This product has been classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) Emergency Overview
---	---

WARNING! MAY CAUSE DAMAGE TO KIDNEY THROUGH PROLONGED OR REPEATED EXPOSURE.

Label Elements Conforms to ASTM D-4236

Pictograms



GHS 07

Signal Word

WARNING!

Hazard Statement

MAY CAUSE DAMAGE TO KIDNEY THROUGH PROLONGED OR REPEATED EXPOSURE. May cause central nervous system effects. May cause mercury poisoning. Contact may cause eye and skin irritation.

Precaution Statement

Do not apply heat. Do not eat. Wash hands and face before eating or smoking. Ensure fresh air entry during application and drying. Avoid dust or prolonged or repeated skin contact.

Children's Statement

KEEP OUT OF REACH OF CHILDREN.

NFPA

Classification of the Product:

Health 2 - May be harmful if inhaled or absorbed

Flammability 1 - Combustible if heated

Reactivity 0 - Stable

HMIS

Health 2 - Moderate Hazard

Flammability 1 -Slight Hazard

Physical Hazard 0 - Minimal Hazard

Regulation (EC) No. 1272/2008

Mercury compounds are classified in the Annex I of the regulation.

Export and Import of Dangerous Chemicals

This product and its ingredients are listed in the Annex I of the regulation.

Regulation (EC)No. 649/2012

Directive 67/548/EEC & Directive 1999/45/EC

Mercury sulfide (CAS: 1344-48-5) H317, P261, P272, P280, P302+P352, P333+P313, P363, P501



SAFETY DATA SHEET
MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING MERCURY COMPOUND

HAR1490- A
 June 1, 2015
 Page 2 of 6

3. Composition/Information on Ingredients:

Substances:

The various products listed under Section 16 contain non- hazardous natural drying oils, organic and inorganic pigments, additives.

Hazardous Ingredients Mercury sulfide (CAS: 1344-48-5) ----- 50.00% - 90.00%

Risk and Safety Phrases:

Ingredients are marked according to CLP Regulation (CLP-Regulation (EC) No 1272/2008) and according to DSD (Dangerous Substances Directive (67/548/EEC)) and DPD (Dangerous Preparations Directive (1999/45/EC)). These ingredients are regarded as trade secrets.

4. First Aid Measures

Inhalation	Supply fresh air. If required, provide artificial respiration. Consult with a
Skin Contact	Remove any contaminated clothing. Wash affected area immediately with water and soap and rinse thoroughly. If irritation persists, see a physician.
Eye Contact	Flush area with water, lifting the upper and lower lids until no evidence of product remains. Get medical attention. Do not wear contact lenses while handling.
Ingestion	If swallowed, call physician immediately

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 combustible, but as a precaution keep product in cool place.

6. Accidental Release Measures

Environmental precautions	No product should be released to the environment without due care.
Methods and Materials for Containment and Cleaning up	Contain spill. Recover as much as possible with sand, soil or similar product. 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 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.
Storage	Keep the sample in a cool dry ventilated area. Keep away from fire and heating sources.

8. Exposure Controls/Personal Protection

Personal Protective Equipment	Wear safety goggles and protective gloves to avoid dust contact.
Exposure Limits	



SAFETY DATA SHEET
MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING MERCURY COMPOUND

HAR1490- A
 June 1, 2015
 Page 3 of 6

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Mercury(II) sulfide	1344-48-5	TWA	0.025000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption varies		
		TWA	0.050000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		C	0.100000 mg/m ³	USA. NIOSH Recommended Exposure Limits

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

Handle with non-porous nitrile gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full Contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash protection Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye Protection

Safety glasses conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



SAFETY DATA SHEET
MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING MERCURY COMPOUND

HAR1490- A
 June 1, 2015
 Page 4 of 6

9. Physical and Chemical Properties

Appearance	Viscous colored oil paints
Physical State	Solid - Paste
Color	See product list in Section 16
Odor	Slightly aromatic.
Boiling Point	Greater than 100°C/ 212°F Greater than 100°C/ 212°F Greater than 100°C/ 212°F Greater than 100°C/ 212°F Greater than 100°C/ 212°F
Freezing Point	Not applicable
State (pH)	8.5 - 9.2
Specific Gravity	1.0 - 2.0
Viscosity	Not determined (Viscous material)
Flashpoint	Greater than 230°C/ 446°F
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Solubility in water	Not miscible

10. Stability and Reactivity

Reactivity:	Reaction with reducing agents.
Chemical Stability	Stable
Conditions to Avoid	Keep away from heat, sparks and flame.
Incompatible materials	Combustible material (eg. Cotton)
Hazardous Decomposition Products	No information available.

11. Toxicological Information

Health Effects	Studies have not been performed on this particular mixture. The information below is based on data on the individual ingredients.
Oral	Expected to be greater than 2,000 mg/kg (rats)
Ingestion	Nausea, vomiting and abdominal pain.
Inhalation	Do not spray apply!
Dermal	May cause irritation
Eye Effects	May cause irritation

12. Ecological Information

Toxicity:	Very toxic to aquatic organisms.
Aquatic toxicity	Very toxic to aquatic organisms.
Persistence and degradability	A mixture of biodegradable and non biodegradable ingredients. No other information is available.
Bio accumulative potential	Not expected to bioaccumulate significantly.
Mobility in soil	The product has poor water-solubility.
Additional ecological information	No information available.

13. Disposal Considerations

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Contact specialist disposal companies. Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.



SAFETY DATA SHEET
MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING MERCURY COMPOUND

HAR1490- A
 June 1, 2015
 Page 5 of 6

14. Transport Information

The following transportation categories do not apply to this mixture sold as a consumer use product (non-bulk). The data below refers to the major component of the formulation, Mercury sulfide.

DOT Non-Bulk

Shipping Name	Mercury compound, n.o.s. (Mercury Sulfide)
Technical Shipping Name	Mercury compound, n.o.s. (Mercury Sulfide)
Hazard Class	6.1 Poisonous material
UN Number	UN 2025
Packing Group	III

IMDG

Shipping Name	Mercury compound, n.o.s. (Mercury Sulfide)
Technical Shipping Name	Mercury compound, n.o.s. (Mercury Sulfide)
Hazard Class	6.1 Poisonous material
UN Number	UN 2025
Packing Group	III
Marine Pollutant	Yes

ICAO/IATA

Shipping Name	Mercury compound, n.o.s. (Mercury Sulfide)
Technical Shipping Name	Mercury compound, n.o.s. (Mercury Sulfide)
Hazard Class	6.1 Poisonous material
UN Number	UN 2025
Packing Group	III

Michael Harding Art Materials Ltd. are IATA certified through the UK CAA.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the materials.

15. Regulatory Information

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

SARA	Not applicable
Section 355 (extremely hazardous substances)	Not applicable
Section 313 (Specific toxic chemical listing)	Not applicable

TSCA (Toxic Substance Control Act)	All ingredients are listed.
<i>The Safe Drinking Water and Toxic Enforcement Act of 1986 - California Proposition 65</i>	As of June 1, 2015 this product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

Chemicals known to cause cancer	None of the ingredients are listed as of 6/1/15.
---------------------------------	--

Chemicals known to cause reproductive toxicity for females	None of the ingredients are listed as of 6/1/15.
--	--

Chemicals known to cause reproductive toxicity for males	None of the ingredients are listed as of 6/1/15.
--	--



SAFETY DATA SHEET
MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING MERCURY COMPOUND

HAR1490- A
 June 1, 2015
 Page 6 of 6

Chemicals known to cause developmental toxicity

Mercury sulfide

Carcinogenicity categories

EPA (Environmental Protection Agency)

Not applicable to this mixture.

TLV (Threshold Limit Value established by ACGIH)

Not applicable to this mixture.

MAK (German Maximum Workplace Concentration)

Not applicable to this mixture.

NOISH-Ca (National Institute for Occupational Safety & Health)

Not applicable to this mixture.

OSHA-Ca (Occupational Safety & Health Administration)

Not applicable to this mixture.

16. Other Information

Product Number and Color Name	Pigment Identification
701 Genuine Chinese Vermillion	PR 106 Mercuric Sulphide

Hazard statement(s)

H317

May cause an allergic skin reaction.

Precautionary statement(s)

P261

P272

P280

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352

P333 + P313

P363

P501

IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation or rash occurs: Get medical advice/ attention.
 Wash contaminated clothing before reuse.
 Dispose of contents/ container to an approved waste disposal plant.

Supersedes MSDS

New SDS

Reason for Issue:

GHS Format

Prepared by:

Rudolph J. Jaeger, Ph.D., DABT, ERT (UK)

Chief Toxicologist and President

ENVIRONMENTAL MEDICINE, INC.

263 CENTER AVENUE

WESTWOOD, NJ 07675

jaegerr@envmed.com

201-666-7929 x13

The information contained in this Safety Data Sheet was compiled using the latest and most reliable information available to Michael Harding Art Materials, Ltd. The information is provided without any warranty, express or implied regarding its correctness or accuracy nor will Michael Harding Art Materials Ltd. 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 express 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.