

#### SAFETY DATA SHEET

01597-4063, 4062

HAR1490 June 1, 2015 Page 1 of 8

MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING HEXAVALENT CHROMIUM

1. Identification of the Preparation and of The Company

MICHAEL HARDING ARTIST OIL COLORS - COLORS CONTAINING

Product Name and/or code:

HEXAVALENT CHROMIUM
1-Jun-15

Effective Date: Manufacturer:

Michael Harding Art Materials Ltd. 36 Springdale Industrial Estate Cwmbran, Gwent NP44 -5BD, Wales North America: 978-549-4029

Information Contact:

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! HARMFUL IF SWALLOWED.Cancer Hazard from inhaled dust. KEEP OUT OF REACH OF CHILDREN

Label Elements

Pictograms

Conforms to ASTM D-4236



HS US

 $\langle i \rangle$ 

GHS 07

Signal Word

WARNING!

Hazard Statement

HARMFUL IF SWALLOWED.Cancer Hazard from inhaled dust. Do not spray

apply.

**Precaution Statement** 

Do not eat, drink or smoke while using. Dust is an irritant. Avoid all contact. Wear protective gloves and clothing. Avoid creating dust. Do not sand dry film. Provide good ventilation. Wash hands and face before eating

or smoking.

Children's Statement

KEEP OUT OF REACH OF CHILDREN.

Classification of the Product:

NFPA

Health 2-Warning. Maybe harmful if inhaled or swallowed.

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

Hexavalent chromium compounds are classified in the Annex I of the

regulation.

**Export and Import of Dangerous Chemicals** 

Regulation (EC)No. 649/2012

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

Item Numbers: 01597-4062, 01597-4063 Page 1 of 8



HAR1490 June 1, 2015 Page 2 of 8

Directive 67/548/EEC & Directive 1999/45/EC Barium chromate (CAS: 10294-40-3) - Oxidizing Solids (Cat. 2) H272, Acute Tox (Oral, Cat. 4) H302, Acute Tox (Inhalation, Cat. 4) H332, Carc. (Cat. 1A) H350; P201, P202, P210, P220, P221, P261, P264, P270, P271, P280, P301+P312+P330, P304+P340+P312, P308+P313, P370+P378, P405, P501.

Symptoms of poisoning may occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended. In case of ingestion do not induce vomiting, immediately contact a doctor, physician or qualified health care professional.

### 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** 

Barium chromate (CAS: 10294-40-3) --10.00 - 30.00%

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

	4. First Aid Measures
Inhalation	Supply fresh air. If required, provide artificial respiration. Consult with a doctor, physician or qualified health professional if symptoms persist. In case of unconsciousness place patient securely in side position for transportation (if needed).
Skin Contact	Remove any contaminated clothing. Wash affected area immediately with water and soap and rinse thoroughly.
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	Drink water or milk to dilute. Do not induce vomiting. Contact a physician.
	5. Firefighting Measures
Extinguishing Media Fire/Explosion Hazards	Water, foam, carbon dioxide or dry chemical equipment. 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.

Page 2 of 8 Item Numbers: 01597-4062, 01597-4063



HAR1490 June 1, 2015 Page 3 of 8

### 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 Exposure Limits** 

Wear safety goggles and protective gloves to avoid dust contact. The following information refers to Barium chromate.

Component	CAS-No.	Value	Control parameters	Basis		
Barium chromate	10294-40-3	TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
	Remarks	See Table Z-2 for the exposure limit for any operations or sectors where the exposure limit in § 1910.1026 is stayed or is otherwise in effect Substance listed; for more information see OSHA document 1910.1026				
		TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)		
		Eye, skin, & Gastrointestinal imitation Muscular stimulation Not classifiable as a human carcinogen				
		TWA	0.500000 mg/m3	USA, NIOSH Recommended Exposure Limits		
		TWA	1.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
		CEIL	1.000000mg/10 m3	USA, Occupational Exposure Limits (OSHA) - Table Z-2		
		Z37.7-1971 This standard applies to any operations or sectors for which the exposure limit in the Chromium (VI) standard, Sec. 1910.1026, is stayed or is otherwise not in effect.				
	PEL	0.005000 mg/m3	OSHA Specifically Regulated Chemicals/Carcinogens			
		1910.1026 This standard applies to occupational exposures to chromium (VI) in all forms and compounds in general industry, except: (a) Exposure: that occur in the application of pesticides regulated by the Environmental Protection Agency or another Federal government agency (e.g., the treatment of wood with preservatives); (b) Exposures to portland cement; or (c) Where the employer has objective data demonstrating that a material containing chromium or a specific process, operation, or activity involving chromium cannot release dusts, furnes, or mists of chromium (VI) in concentrations at or above 0.5 µgm/m3 as an 8-hour time-weighted average (TWA) under any expected conditions of use.  Chromium (VI) [hexavalent chromium or Cr(VI)] means chromium with a valence of positive six, in any form and in any compound OSHA specifically regulated carcinogen				

Page 3 of 8 Item Numbers: 01597-4062, 01597-4063



HAR1490 June 1, 2015 Page 4 of 8

PEL	0.005000 mg/m3	OSHA Specifically Regulated Chemicals/Carcinogens
all forms and that occur in Environment agency (e.g Exposures to objective dat a specific pro- release dust or above 0.5 under any ex Chromium () with a valence	I compounds in gethe application of tall Protection Agental Protection Agental Protection Agental Protection Agental A	omium or Cr(VI)] means chromium a any form and in any compound
TWA	0.000200 mg/m3	USA. NIOSH Recommended Exposure Limits
Potential Occ See Appendi See Appendi		gen

Respiratory and Ventilation

**Skin Protection** 

**Eye Protection** 

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.

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.

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).

9. Physical and Chemical Properties

Appearance Viscous colored oil paints

Item Numbers: 01597-4062, 01597-4063 Page 4 of 8



HAR1490 June 1, 2015 Page 5 of 8

Physical State Solid - Paste

Color See product list in Section 16

Odor Slightly aromatic.

Boiling Point Greater than 100°C/ 212°FGreater than 100°C/ 212°FGreater than 100°C/

212°FGreater than 100°C/ 212°FGreater than 100°C/ 212°FGreater 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.

1	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	This product poses no inhalation risk.
Dermal	Not a skin sensitizer.
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 biodegrable 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.

Item Numbers: 01597-4062, 01597-4063 Page 5 of 8



HAR1490 June 1, 2015 Page 6 of 8

#### 14. Transport Information

The following transportation categories do not apply to this mixture sold as a consumer use product (non-bulk). The information below refers to the classification of Barium chromate.

**DOT Non-Bulk** 

Shipping Name Oxidizing solid, n.o.s. (Barium chromate)
Technical Shipping Name Oxidizing solid, n.o.s. (Barium chromate)

Hazard Class 5.1
UN Number 1479
Packing Group II

**IMDG** 

Shipping Name Oxidizing solid, n.o.s. (Barium chromate)
Technical Shipping Name Oxidizing solid, n.o.s. (Barium chromate)

Hazard Class 5.1
UN Number 1479
Packing Group II
EmS Number F-A, S-Q
Marine Pollutant Yes

ICAO/IATA

Shipping Name Oxidizing solid, n.o.s. (Barium chromate)
Technical Shipping Name Oxidizing solid, n.o.s. (Barium chromate)

Hazard Class 5.1
UN Number 1479
Packing Group II

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) Barium chromate (CAS: 10294-40-3)

TSCA (Toxic Substance Control Act)

All ingredients are listed.

The Safe Drinking Water and Toxic

As of June 1, 2015 this product contains chemicals known to the State of Enforcement Act of 1986 - California

California to cause cancer and birth defects or other reproductive harm.

Proposition 65

Chemicals known to cause cancer Barium chromate (CAS: 10294-40-3)
Chemicals known to cause reproductive Barium chromate (CAS: 10294-40-3)

toxicity for females

Chemicals known to cause reproductive Barium chromate (CAS: 10294-40-3)

toxicity for males

Item Numbers: 01597-4062, 01597-4063 Page 6 of 8



Barium chromate (CAS: 10294-40-3)

HAR1490 June 1, 2015 Page 7 of 8

Chemicals known to cause developmental

toxicity

**Carcinogenicity categories** 

EPA (Environmental Protection Agency)
TLV (Threshold Limit Value established by

ACGIH)

Not applicable to this mixture.

Not applicable to this mixture.

MAK (German Maximum Workplace

Concentration)

Not applicable to this mixture.

 ${\bf NOISH-Ca}\ ({\bf National\ Institute\ for\ Occupational\ \ Not\ applicable\ to\ this\ mixture}.$ 

Safety & Health)

**OSHA-Ca (Occupational Safety & Health** 

Administration)

Not applicable to this mixture.

16.	Other Information	
		_

ProductiNumber and Golor Name	Plamentidentification
108 Lemon Yellow	PY 31 Barium Chromate

Hazard statement(s)

H272 May intensify fire; oxidiser.

H302 + H332 Harmful if swallowed or if inhaled

H350 May cause cancer.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.
P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you

feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER or doctor/ physician if you feel

unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to

extinguish.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Item Numbers: 01597-4062, 01597-4063 Page 7 of 8



HAR1490 June 1, 2015 Page 8 of 8

Reason for Issue: Prepared by:

GHS Format
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.

Item Numbers: 01597-4062, 01597-4063 Page 8 of 8