

## SAFETY DATA SHEET

[info@deffner-johann.de](mailto:info@deffner-johann.de) | +49 9723 9350-0

Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.



**SAFETY DATA SHEET**  
**MICHAEL HARDING ARTIST OIL COLORS**  
**COLORS CONTAINING COBALT**

HAR1600  
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 COBALT  
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

**CAUTION! MAY BE HARMFUL IF SWALLOWED.** Cancer hazard: Contains cobalt which may cause cancer by ingestion and inhalation of fumes and dust. Prolonged or repeated skin contact may cause irritation and dermatitis. **KEEP OUT OF REACH OF CHILDREN.**

**Label Elements**

Pictograms

Conforms to ASTM D-4236



GHS 08

GHS 07

Signal Word

**CAUTION!**

Hazard Statement

**CAUTION! MAY BE HARMFUL IF SWALLOWED.** Cancer hazard: Contains cobalt which may cause cancer by ingestion and inhalation of fumes and dust. Do not spray apply. Prolonged or repeated skin contact may cause irritation and dermatitis.

Precaution Statement

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 -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

Cobalt compounds are classified in the Annex I of the regulation. Some entries aren't classified.

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.



**SAFETY DATA SHEET**  
**MICHAEL HARDING ARTIST OIL COLORS**  
**COLORS CONTAINING COBALT**

HAR1600  
June 1, 2015  
Page 2 of 6

Directive 67/548/EEC & Directive 1999/45/EC Cobalt compounds, major components of these products are classified as follows:

Cobalt (II) phosphate (CAS: 13455-36-2) GHS07 - Acute Tox. 4 H302, Skin Irrit. 2 H315, Eye Irrit. 2A H319, STOT SE 3 H335; P261, P280, P305 + P351 + P338, P304 + P340, P405, P501

Cobalt aluminum oxide (CAS: 1333-88-6) ---30.00-60.00% GHS08, GHS07 - Skin Irrit. 2 H315, Eye Irrit. 2A H319, Skin Sens. 1 H317, Carc. 2 H351, STOT SE 3 H335; P201, P202, P261, P264, P271, P272, P280, P302+P352, P304+P340, P305+P351+P338, P308+P313, P321, P333+P313, P362, P403+P233, P405, P501.

Other cobalt compounds present in the formulation are not classified.

### 3. Composition/Information on Ingredients:

#### Substances:

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

	Cobalt chromite blue - green spinel (CAS: 68187-11-1) --30.00-60.00%
Cobalt compounds:	Cobalt (II) phosphate (CAS: 13455-36-2) ----30.00 - 60.00%-
	Cobalt aluminum oxide (CAS: 1333-88-6) ----30.00-60.00%

#### 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)) and no workplace-related occupational exposure limits are specified for any of the listed ingredients. These ingredients are regarded as trade secrets.

### 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	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.
---------------------------	--



**SAFETY DATA SHEET**  
**MICHAEL HARDING ARTIST OIL COLORS**  
**COLORS CONTAINING COBALT**

HAR1600  
June 1, 2015  
Page 3 of 6

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      Not applicable to this mixture. (Do not spray apply product)

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  
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).

**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/

Freezing Point      Not applicable



**SAFETY DATA SHEET**  
**MICHAEL HARDING ARTIST OIL COLORS**  
**COLORS CONTAINING COBALT**

HAR1600  
June 1, 2015  
Page 4 of 6

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 strong oxidizing agents.
Chemical Stability	Stable
Conditions to Avoid	Keep away from heat, sparks and flame. Avoid contact with strong oxidizing agents.
Incompatible materials	Combustible material (eg. Cotton)
Hazardous Decomposition Products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### 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 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.

### 14. Transport Information

**The following transportation categories do not apply to this mixture sold as a consumer use product (non-bulk).**

#### DOT Non-Bulk

Shipping Name	Not applicable
Technical Shipping Name	Not applicable
Hazard Class	Not applicable
UN Number	Not applicable
Packing Group	Not applicable



**SAFETY DATA SHEET**  
**MICHAEL HARDING ARTIST OIL COLORS**  
**COLORS CONTAINING COBALT**

HAR1600  
June 1, 2015  
Page 5 of 6

**IMDG**

Shipping Name	Not applicable
Technical Shipping Name	Not applicable
Hazard Class	Not applicable
UN Number	Not applicable
Packing Group	Not applicable
EmS Number	Not applicable
Marine Pollutant	Not applicable

**ICAO/IATA**

Shipping Name	Not applicable
Technical Shipping Name	Not applicable
Hazard Class	Not applicable
UN Number	Not applicable
Packing Group	Not applicable
Marine Pollutant	Not applicable

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 cancer.

Chemicals known to cause cancer	Cobalt compounds
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.
Chemicals known to cause developmental toxicity	None of the ingredients are listed as of 6/1/15.

**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.



**SAFETY DATA SHEET**  
**MICHAEL HARDING ARTIST OIL COLORS**  
**COLORS CONTAINING COBALT**

HAR1600  
June 1, 2015  
Page 6 of 6

NOISH-Ca (National Institute for Occupational Safety & Health) Not applicable to this mixture.

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

**16. Other Information**

<u>Product Number and Color Name</u>	<u>Pigment Identification</u>
501 Aureolin	PY 40 Cobalt Potassium Nitrate
506 Cobalt Blue	PB 28 Oxides of Cobalt & Aluminium
507 Cobalt Turquoise Deep	PB 36 Oxides of Cobalt & Aluminium
508 Cobalt Green Deep	PG 19 Oxides of Cobalt & Zinc
513 Cobalt Teal	PG 50
601 Cobalt Violet Light	PV 14 Cobalt Phosphate
602 Cobalt Violet Dark	PV 14 Cobalt Phosphate
603 Cerulean Blue	PB 36 Cobalt Stannate & Oxides of Tin

Supersedes MSDS

Reason for Issue:

Prepared by:

New SDS

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.