

SAFETY DATA SHEET

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SAFETY DATA SHEET
MICHAEL HARDING ARTIST OIL COLORS
COLORS CONTAINING COBALT

HAR1600
June 1, 2015
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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.



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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. |
|---------------------------|--------------------------------------------------------------------|



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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



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| | |
|---------------------|-----------------------------------|
| 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 |



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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. |



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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

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