

1. Identification of the substance/preparation and of the company/undertaking

Product name:	M. Graham & Co. Oil Colours
Colours:	Alizarin Crimson, Anthraquinone Blue, Anthraquinone Red, Azo Coral, Azo Green, Azo Orange, Azo Yellow, Bismuth Yellow, Burnt Sienna, Burnt Umber, Cadmium Orange, Cadmium Red, Cadmium Red Deep, Cadmium Red Light, Cadmium Yellow, Cadmium Yellow Deep, Cadmium Yellow Light, Cerulean Blue, Chroma Black, Chromium Oxide Green, Chrome Tin Yellow, Cobalt Blue, Cobalt Green, Cobalt Teal, Cobalt Turquoise, Dioxazine Purple, Emerald Green, Green Earth, Hansa Yellow, Hansa Yellow Deep, Indian Yellow, Ivory Black, Lamp Black, Manganese Blue Hue, Maroon Pereylene, Mars Black, Mineral Violet, Naphthol Red, Naples Yellow, Nickle Azo Yellow, Nickel Quinacridone Gold, Olive Green, Paynes Gray, Permanent Green Light, Permanent Green Pale, Phthalocyanine Blue, Phthalocyanine Blue Red Shade, Phthalocyanine Green, Phthalocyanine Green Yellow Shade, Prussian Blue, Pyrrol Red, Quinacridone Red, Quinacridone Rose, Quinacridone Rust, Quinacridone Violet, Raw Sienna, Raw Umber, Sap Green, Scarlet Pyrrol, Terra Rosa, Titanium White, Titanium White (Alkyd), Titanium White Sunflower, Transparent Orange Iron Oxide, Transparent Red Iron Oxide, Transparent Yellow Iron Oxide, Turquoise, Ultramarine Blue, Ultramarine Purple, Ultramarine Violet, Van Dyke Brown, Viridian, Warm White (Unbleached Titanium), Yellow Ochre, Zinc White
Mediums:	Walnut Oil, Walnut Alkyd Medium
Relevant identified uses of the substance or mixture:	Artists professional oil products; pigment dispersions and oil mediums. For application with brush to a substrate. Not intended for spray application, sanding or other operations which generate dust or airborne concentrations. Not intended for use by children.
Company name:	M. Graham & Co P.O. Box 215 West Linn, OR 97068
Tel:	503-656-6761
Emergency Number:	Poison Control Centre: 800-222-1222

2. Hazards identification

2.1. Health Risks and Systems of Exposure

Inhalation:	None expected under normal use.
Eye Contact:	Prolonged or repeated contact may be irritating to eyes.
Skin Contact:	Prolonged or repeated contact may be irritating to skin.
Ingestion:	May cause irritation or pain to gastrointestinal system.
Carcinogenicity:	Certain components and some pigments may be linked to carcinogenic response in testing.
Medical Conditions Aggravated by Exposure:	None Known.

2.2. Other Hazards

CADMIUM (CAS NO. 7440-43-9): Cadmium Compounds are classified by IARC, NTP and OSHA as probably carcinogenic in humans through inhalation. OSHA also classifies such compounds as causing lung and kidney disease. Pigmentary cadmium compounds have been shown to be significantly less biologically available and active than the other compounds. Adverse effects of this mixture as an artists' colour have not been demonstrated.

This material should not be applied by spray due to potential for harmful effects in the lungs if inhaled.

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. Do not spray apply. Keep out of reach of children. Applies to: Cadmium Orange, Cadmium Red, Cadmium Red Deep, Cadmium Red Light, Cadmium Yellow, Cadmium Yellow Deep, Cadmium Yellow Light.

COBALT (CAS NO. 7440-48-4): Individuals hypersensitive to cobalt may develop asthma, bronchitis, or shortness of breath. May cause skin sensitization. Cobalt compounds, when used as anti-foams, have caused cardiac damage when ingested with large quantities of fluids. IARC lists cobalt and cobalt compounds as possible human carcinogens and notes inadequate evidence of carcinogenicity in humans based upon animal studies. The cobalt compound in this product has not been specifically identified as a possible carcinogen.

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. Keep out of the reach of children. Applies to: Cobalt Blue, Cobalt Green, Cobalt Teal, Cobalt Turquoise, Cerulean Blue.

CHROMIUM (CAS NO. 7440-47-3): Chromium and some of its compounds are considered carcinogenic, both in animals and humans. Evidence of Chromium (III) compounds carcinogenicity, in pigment form is inconclusive. May cause delayed effects involving the respiratory system. Eye and skin irritant. Applies to: Cerulean Blue, Chromium Oxide Green, Viridian.

MANGANESE (CAS NO. 7439-96-5): Overexposure may affect the central nervous system and lungs, resulting in transitory psychosis, tiredness, weakness and pneumonitis. May aggravate pre-existing neurological conditions. Applies to: Burnt Umber, Green Earth, Raw Umber, Van Dyke Brown.

QUINACRIDONES (CAS NO. 1047-16-1): May cause dermatitis. Eye, skin irritant. Applies to: Nickel Quinacridone Gold, Quinacridone Red, Quinacridone Rose, Quinacridone Rust, Quinacridone Violet.

NICKEL (CAS NO. 7440-02-0): IARC and NTP state there is sufficient evidence of carcinogenicity in experiments with animals and humans. Ingestion may result in damage to the testes. May cause skin irritation.

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. Do not spray apply. Keep out of reach of children. Applies to: Nickel Azo Yellow, Nickel Quinacridone Gold.

PHTHALOCYANINES (CAS NO. 547-93-6): May cause dermatitis. Eye, skin irritant. Applies to: Emerald Green, Green Earth, Manganese Blue Hue, Olive Green, Permanent Green Pale, Phthalocyanine Blue, Phthalocyanine Blue Red Shade, Phthalocyanine Green, Phthalocyanine Green Yellow Shade, Sap Green, Turquoise.

WALNUT OIL (CAS NO. 8024-09-7): Ingestion can produce a laxative effect.

WALNUT ALKYD MEDIUM (CAS NO. MIXTURE): Certified non-toxic as defined in 16 CFR 1500.3 (c)(2)(1). Ingestion can produce laxative effect.

ZINC (CAS NO. 7440-66-6): Overexposure may result in fever, chills, muscular pain or nausea. Applies to: Titanium White, Warm White (Unbleached Titanium), Zinc White.

3. Composition/information on ingredients

Hazardous Component	CAS No	% Composition
Cadmium	7440-43-9	<36
Cobalt	7440-84-4	<25
Chromium	7440-47-3	<25
Manganese	7439-96-5	<0.6
Nickel	7440-02-0	<13
Quinacridone	1047-16-1	<22

Phthalocyanine	547-93-6	<22
Walnut Oil	8024-09-7	<60
Zinc	7440-66-6	<16

Trade secret claim made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations. Specific component names and composition percentages have been withheld.

4. First aid measures

4.1. Description of first aid measures

<u>Inhalation</u>	See a doctor if there are symptoms of exposure.
<u>Ingestion</u>	See a doctor if there are symptoms of exposure.
<u>Skin contact</u>	Wash with soap and water. See a doctor if irritation persists.
<u>Eye contact</u>	Flush with water for 15 minutes. See a doctor if symptoms persist.

5. Fire-fighting measures

Flash Point: >215°F Method Used: T.C.C.
Flammable Classification: OSHA-Class III-B-Dot-Combustible Liquid

5.1. Extinguishing media

Carbon dioxide, water fog, foam, or dry chemical.

5.2. Special hazards arising from the substance or mixture

Do not store with strong oxidants. Do not apply to hot surfaces. Contaminated rags or other organic materials are spontaneously combustible. Immerse in water after use. Decomposition and combustion products may be toxic.

5.3. Advice for fire-fighters

No one other than trained fire fighters should attempt to fight fires. Use water to cool containers exposed to heat. Use self-contained breathing apparatus and full protective clothing for enclosed areas.

6. Accidental release measures

Steps to be Taken on Material Spill:

Contain spilled material by diking with inert materials. Transfer materials to containers for recovery or disposal.

Waste Disposal Method:

Dispose as per local, state or EPA regulations.

Other Precautions:

Immerse contaminated rags in water, store in enclosed metal containers designed for fire retardation.

7. Handling and storage

7.1. Precautions for safe handling:

Do not contaminate food products. Wash hands after use. Avoid eye contact. Keep out of reach of children and pets. Do not spray apply, sand, or use other methods which generate dust or airborne concentrations.

7.2. Conditions for safe storage, including any incompatibilities

Store at room temperature.

8. Exposure controls/personal protection

Respiratory protection:	Not required under normal use.
Hand protection:	Not required under normal use.
Eye protection:	Not required under normal use.
Work/Hygienic Practices	All M. Graham products should be used in accordance with safe handling practices, including: do not eat, drink, or smoke when working with materials, avoid skin contact and wash after use. Keep materials out of reach of children.

9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Thick coloured paste, light amber liquid
Colour	Varied
Odour	Slight vegetable odour
Specific Gravity (H ₂ O = 1):	.9235-2.5
Boiling Point:	>N/A
Vapor Density:	N/A
Evaporation Rate:	N/A

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

10.4. Conditions to avoid

Extreme Heat

10.5. Incompatible materials

Strong oxides such as Nitric Acid

10.6. Hazardous decomposition products

Usual products of combustion: carbon dioxide, carbon monoxide, oxides of nitrogen. Above 800°C cadmiums decompose to toxic fumes of cadmium oxide, zinc oxide, sulfur dioxide and Selenium dioxide.

11. Toxicological information

Inhalation	No data available
Ingestion	No data available
Skin contact	Irritating effect possible
Eye contact	Irritating effect possible
Carcinogenicity	No data available

12. Ecological information

Biodegradability	Partial.
Bioaccumulative	No data available
Aquatic toxicity	No data available

13. Disposal considerations

13.1. Waste treatment methods

If oil colour must be disposed, allow to dry and dispose as solid waste as per local, state, or federal guidelines.

14. Transport information

14.1. UN Number

No

14.2. Hazard class

No

14.3. Packing group

No

Air transport Unregulated

Sea transport Unregulated

Inland transport Unregulated

15. Regulatory information

Regulated by the US Product Safety Commission for consumer product labelling.

Toxicological Certification: All M. Graham & Co. products are certified by an independent toxicologist for conformity to ASTM D4236 under LHAMA in a manner consistent with Consumer Product Safety Commission guidelines.

Products are labelled in compliance with LHAMA under 16 C.F.R. 1500.14 (b)(8).

16. Other information

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.