M. Grahman & Co. Material Safety Data Sheet

M. Grahman & Co.

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Acrylic Color

Date Revised: 2/2/04
Emergency Telephone:
Contact Local Poison Control Center

SECTION I—PRODUCT IDENTIFICATION
This MSDS applies to Artists' Professional Acrylic Products; pigment dispersions and acrylic mediums.

M. GRAHAM & CO. ACRYLIC COLOR

Section 1a

Pigment/PEAR Color

<table>
<thead>
<tr>
<th>Pigment/PEAR Color</th>
<th>HMIS Codes (see Section X)</th>
<th>Section II</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H</td>
<td>E</td>
</tr>
<tr>
<td>Alizarin Crimson</td>
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<tr>
<td>Azo Yellow</td>
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<tr>
<td>Burnt Sienna</td>
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<tr>
<td>Burnt Umber</td>
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<tr>
<td>Cerulean Blue</td>
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<tr>
<td>Cadmium Orange</td>
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<tr>
<td>C.P. Cadmium Red</td>
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</tr>
<tr>
<td>C.P. Cadmium Red Light</td>
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<tr>
<td>C.P. Cadmium Yellow</td>
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<tr>
<td>Cobalt Blue</td>
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<tr>
<td>Dioxazine Purple</td>
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<td>Hooker's Green</td>
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<td>Mars Black</td>
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<td>Napthol Red</td>
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<tr>
<td>Permanent Green Light</td>
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<td>Phthalocyanine Blue</td>
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<td>Phthalocyanine Green</td>
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<td>Quinacridone Rose</td>
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<td>Quinacridone Violet</td>
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<tr>
<td>Raw Umber</td>
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<tr>
<td>Titanium White</td>
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<td>Ultramarine Blue</td>
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<td>Yellow Ochre</td>
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Section 1b

<table>
<thead>
<tr>
<th>Mediums</th>
<th>HMIS Codes (see Section X)</th>
<th>Hazardous Components (Section II)</th>
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<tr>
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<tr>
<td>Gesso Medium</td>
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<td>Matte Medium</td>
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SECTION II—HAZARDOUS INGREDIENTS INFORMATION

OSHA Permissible Exposure Limits

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<tr>
<th>Code</th>
<th>Hazardous Components</th>
<th>CAS Number</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
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<tr>
<td>1</td>
<td>Aluminum</td>
<td>1344-28-1</td>
<td>10 mg/M^3</td>
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<td>-</td>
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<td>2</td>
<td>Amorphous Silica</td>
<td>122926-09-8</td>
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<tr>
<td>3</td>
<td>Cadmium Sulfide</td>
<td>1306-23-6</td>
<td>200 μg/M^3</td>
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<tr>
<td>4</td>
<td>Cadmium Selenide</td>
<td>1306-24-7</td>
<td>200 μg/M^3</td>
<td>(as Cadmium)</td>
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<tr>
<td>5</td>
<td>Chromium (III) Compounds</td>
<td>Varies</td>
<td>5 mg/M^3</td>
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<td>6</td>
<td>Zinc-Chrome Cobalt</td>
<td>74465-01-3</td>
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<td>(as Cr)</td>
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<tr>
<td>7</td>
<td>Cobalt Aluminate</td>
<td>1345-16-0</td>
<td>0.5 mg/M^3</td>
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<td>-</td>
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<tr>
<td>8</td>
<td>Copper</td>
<td>7440-05-0</td>
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<tr>
<td>9</td>
<td>Crystalline Silica</td>
<td>14808-60-7</td>
<td>10 mg/M^3</td>
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<td>10</td>
<td>Iron Oxide (as Fe)</td>
<td>1309-37-1</td>
<td>10 mg/M^3</td>
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<tr>
<td>11</td>
<td>Manganese Compounds (as Mn)</td>
<td>7439-96-5</td>
<td>10 mg/M^3</td>
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<td>5 mg/M^3</td>
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<tr>
<td>12</td>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>10 mg/M^3</td>
<td>-</td>
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</table>
TWA=Time Weighted Average (Average airborne exposure in an 8 hour work shift work week).
STEL=Short Term Exposure Limit (15 minute time weighted average exposure).
Ceiling=Exposure not to be exceeded at any part of the work day.
NE=None Established.
mg/M =Approximate milligrams of substance per cubic meter of air.
µg/M =Approximate micrograms of substance per cubic meter of air.

SECTION III—PHYSICAL/CHEMICAL PROPERTIES
BOILING POINT: >212°F/100°C
SPECIFIC GRAVITY (H2O-1): 1.1-2.0
VAPOR DENSITY: Heavier than air.
EVAPORATION RATE: Slower than ether.
V.O.C.: <1 lb/gal.
SOLUBILITY IN WATER: Dilutable.
APPEARANCE AND ODOR: Colored paste, slight ammonia odor. Milky, liquid, slight ammonia odor.

SECTION IV—FIRE AND EXPLOSION HAZARD DATA
FLASH POINT: Not combustible.
FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical, water fog
SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool containers exposed to heat. Self contained breathing apparatus & full protective clothing for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

SECTION V—REACTIVITY DATA
STABILITY: Stable.
CONDITIONS TO AVOID: Extreme heat.
INCOMPATIBILITY: None known.
HAZARDOUS DECOMPOSITION : Usual products of combustion (for dry films only): carbon dioxide, carbon monoxide, monomer fumes, oxides of nitrogen.
HAZARDOUS POLYMORPHIZATION: Will not occur.

SECTION VI—HEALTH HAZARD DATA
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: None expected under normal use.
EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Prolonged or repeated contact may be irritating to eyes.
SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Prolonged or repeated contact may be irritating to skin.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause irritation or pain to gastrointestinal system.
CARCINOGENICITY: Certain components of some pigments may be linked to carcinogenic response in animal tests or epidemiological data. See details below.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.
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.

ADDITIONAL INFORMATION OR HAZARDS ASSOCIATED WITH SPECIFIED PIGMENTS, VEHICLES OR THEIR COMPONENTS:
AMORPHOUS SILICA- Slight skin irritant and mild eye irritant in animals.
CADMIUM- Cadmium Compounds are classified by IARC, NTP and OSHA as probably carcinogenic in humans through inhalation. Professional product. Not intended for use by children.
OSHA also classes such compounds as causing lung and kidney disease. Pigmentary cadmium compounds have been shown to be significantly less biologically available and active than other compounds. Adverse effects of this mixture as an artists' color have not been demonstrated.
All cadmium pigments used by M. Graham & Co. are selected and monitored to ensure low solubility. All Cadmium pigments used by M. Graham & Co. are certified as meeting all current EPA requirements for NON-HAZARDOUS disposable waste. This material should not be applied by spray due to potential for harmful effects in the lungs if inhaled. Reportable under 40 CFR 372-SARA TITLE III, Section 313.
EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush with water for 15 minutes. SEE DOCTOR if any symptoms persist.
SKIN CONTACT: Wash with soap and water. SEE DOCTOR if skin irritation occurs.
INHALATION: N/A
INGESTION: SEE DOCTOR if there are symptoms of exposure.

Proposition 65: The following products contain chemicals known to the State of California to cause cancer or reproductive harm.
Cadmium Orange, Cadmium Red, Cadmium Red Light, Cadmium Yellow, Cadmium Yellow Light, Cobalt Blue, Cerulean Blue

SECTION VII—PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike and contain with inert material. Transfer material to containers for recovery or disposal.
WASTE DISPOSAL METHOD: Dispose as per local, state or EPA regulations.
PRECAUTIONS IN HANDLING AND STORING: Avoid inhalation and skin contact. Avoid freezing—product may coagulate.
OTHER PRECAUTIONS: None.

SECTION VIII—CONTROL MEASURES

RESPIRATORY PROTECTION: None required under normal use.
VENTILATION: None required under normal handling.
PROTECTIVE GLOVES: None required under normal use.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None 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 excessive skin contact and wash after use. Keep professional materials out of reach of children.

SECTION IX—ADDITIONAL PRECAUTIONS AND INFORMATION

DISCLAIMER

WHILE WE BELIEVE THE DATA SET FORTH HEREIN IS ACCURATE AS OF THE DATE HEREOF, M. GRAHAM & CO. AND ITS AFFILIATED ENTITIES MAKE NO WARRANTIES EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE SUITABILITY OF ITS PRODUCTS FOR USE. THIS INFORMATION IS OFFERED SOLELY FOR THE BUYER'S CONSIDERATION, INVESTIGATION AND VERIFICATION. ALL PRODUCTS ARE SOLD ON AN "AS IS" BASIS AND M. GRAHAM & CO. EXPRESSLY DISCLAIMS ANY WARRANTY AS TO THE MERCHANTABILITY OR FITNESS OF ITS PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE OF THE BUYER. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PRODUCTS IS WITH THE BUYER. IF THE PRODUCT
SECTION X—GUIDE TO HAZARDOUS MATERIAL IDENTIFICATION

I. \( H = \text{HEALTH HAZARD RATING} \)
4 - SEVERE HAZARD: Life-threatening, major or permanent damage may result from single or repeated exposures.
3 - SERIOUS HAZARD: Exposure may result in major injury unless prompt action is taken and medical treatment is given.
2 - MODERATE HAZARD: Exposure may result in temporary or minor injury.
1 - SLIGHT HAZARD: Exposure may result in irritation or minor reversible injury.
0 - MINIMAL HAZARD: No significant risk to health.

II. \( F = \text{FLAMMABILITY HAZARD RATING} \)
4 - SEVERE HAZARD: Very flammable gases or very volatile flammable liquids with flash points below 73°F and boiling points below 100°F (NFPA Class 1A).
3 - SERIOUS HAZARD: Materials capable of ignition under almost all normal temperature conditions, including flammable liquids with flash points below 73°F and boiling points above 100°F, as well as liquids with flash points between 73°F and 100°F (NFPA Class 1B and 1C).
2 - MODERATE HAZARD: Materials that must be moderately heated before ignition will occur, including flammable liquids with flash points at or above 100°F but less than 200°F (NFPA Class II and IIIA).
1 - SLIGHT HAZARD: Materials that must be preheated before ignition will occur. Flammable liquids in this category will have flash points at or above 200°F (NFPA Class IIIB).
0 - MINIMAL HAZARD: Materials that will not burn.

III. \( R = \text{REACTIVITY} \)
4 - SEVERE HAZARD: Materials that are readily capable of detonation or explosive decomposition at normal temperatures and pressures.
3 - SERIOUS HAZARD: Materials that are capable of detonation or explosive reaction but require a strong initiating force or that must be heated under confinement before initiation, or materials that react explosively with water.
2 - MODERATE HAZARD: Materials that are normally unstable and will readily undergo violent chemical change but will not detonate. These materials may also react violently with water.
1 - SLIGHT HAZARD: Materials that are normally stable, but which can become unstable at elevated temperatures and pressures. These materials may react with water but will not release energy violently.
0 - MINIMAL HAZARD: Materials that are normally stable, even under fire conditions and will not react with water.

IV. \( P = \text{PROTECTIVE EQUIPMENT INDEX} \)
A - safety glasses
B - safety glasses, gloves
C - safety glasses, gloves, synthetic apron
D - face shield, gloves, synthetic apron
E - safety glasses, gloves, dust respirator
F - safety glasses, gloves, synthetic apron, dust respirator
G - safety glasses, gloves, vapor respirator
H - splash goggles, gloves, synthetic apron, vapor respirator
I - safety glasses, gloves, dust & vapor respirator
J - splash goggles, gloves, synthetic apron, dust & vapor respirator
K - air line hood or mask, gloves, full suit, boots
X - ask your supervisor for special handling instructions