02024-1009

MATERIAL SAFETY DATA SHEET

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

Golden Artist Colors, Inc. 188 Bell Road New Berlin, NY 13411

Cobalt Blue

Date Revised: 07/20/2011 Phone: (607)847-6154 Prepared by: Ben Gavett

HAZARDOUS COMPONENTS (See Sec. 3) **COLOR LINES GOLDEN Airbrush Colors** 1.29 **GOLDEN Acrylics** 1.29 **GOLDEN Fluid Acrylics** 1,29 **GOLDEN High Load Acrylics** 1,5.20,29 **GOLDEN Glazes** 1,5.29 **GOLDEN Matte Acrylics** 1,5,20,29 **GOLDEN Matte Fluid Acrylics** 1,5,20,29 **GOLDEN OPEN Acrylics** 1,29 **Individual Colors** Alizarin Crimson Hue Anthraquinone Blue Anthraquinone Red Aurolein Yellow Hue 24 Azurite Hue 19,34 Bismuth Vanadate Yellow 8.5 Bone Black 13 **Bright Orange** Bright Red Orange Bright Yellow-Green Burnt Sienna 20.24 Burnt Sienna Hue Burnt Umber & Burnt Umber Light 20,24,25 Cadmium Red Medium Hue Cadmium Yellow Medium Hue 6,28 Carbon Black 13 Cerulean Blue, Chromium 14,18 Cerulean Blue Deep 14,18 Cerulean Blue Hue 3,5,19,33 Chrome Oxide Green (all) 14 C.P. Cadmium Orange 7,9,10 C.P. Cadmium Red (all) 7,9,10 C.P. Cadmium Yellow (Dark, Lt., Med.) 7,9,35 C.P. Cadmium Yellow Primrose 7,9,35 Coarse Alumina 4,33

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| Cobalt Blue Hue | 19,33 |
|---|---------------|
| Cobalt Green | 14.18 |
| Cobalt Teal | 18 |
| Cobalt Titanate Green | 6,18,28 |
| Cobalt Turquoise | 14,18 |
| Cobalt Violet Hue | 34 |
| Deep Violet | - |
| Diarylide Yellow | - |
| Dioxazine Purple | - |
| Fluorescent (all colors) | - |
| Glaze Colors (reference "Pigment" on label) | |
| Graphite Gray | 23 |
| Green Gold | 8,28 |
| Hansa Yellow (Lt., Med. & Opaque) | - - |
| Hookers Green Hue (Airbrush Line) | 13,19 |
| Hookers Green Hue (GOLDEN Acrylic Line) | 28 |
| Indian Yellow Hue | 28 |
| Interference Colors | 27,33 |
| Interference Colors (Color Travel) | 5,33 |
| Iridescent Black Mica Flake | 27 |
| Iridescent Bright Gold | 27.28.33 |
| Iridescent Bronze | 19.24.27 |
| Iridescent Copper (and Coarse) | 24.27,33 |
| Iridescent Copper Lt. (and Coarse) | 24.27 |
| Iridescent Gold (and Coarse) | 24,27,33 |
| Iridescent Gold Deep | 24,27,33 |
| Iridescent Gold Mica Flake (Small & Large) | 27 |
| Iridescent Pearl (and Coarse) | 27,33 |
| Iridescent Pearl Mica Flake | 27 |
| Iridescent Silver | 23.27.33 |
| Irid. Stain. Steel (Coarse and Fine) | 15.28 |
| Jenkins Green | 8.19,28 |
| Light Green (Blue Shade) | 33 |
| Light Green (Yellow Shade) | 33 |
| Light Magenta | 33 |
| Light Turquois (Phthalo) | 19.33 |
| Light Ultramarine Blue | 33 |
| Light Violet | 33 |
| Manganese Blue Hue | 34 |
| Mars Black | 24 |
| Mars Yellow | 24 |
| Medium Magenta | 33 |
| Medium Violet | 33 |
| Micaceous Iron Oxide | 24 |
| Naphthol Red (Lt. & Med.) | - |
| Naples Yellow Hue | 24.33 |
| Neutral Grays (all) | 5,20,24,25,33 |
| Nickel Azo Yellow | 26,28 |
| Paynes Gray | 13 |
| • | .5 |

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| Perm. Green Lt. | | 7.19 |
|-------------------------------|-------|-------------|
| Perm. Green Dark | | 19 |
| Permanent Maroon | | - |
| Permanent Violet Dark | | - |
| Phosphorescent | | 34 |
| Phthalo Blue GS | | 7,19 |
| Phthalo Blue RS | | 19 |
| Phthalo Green BS | | 7,19 |
| Phthalo Green YS | | 19 |
| Primary Cyan | | 7,19,20 |
| Primary Magenta | | 7,20 |
| Primary Yellow | | 20 |
| Prussian Blue Hue | | 19 |
| Pyrrole Colors (all) | | - |
| Quinacridone Burnt Orange | | 31 |
| Quinacridone Crimson | | 31 |
| Quinacridone/Nickel Azo Gold | | <u>-</u> |
| Quinacridone Magenta | | - |
| Quinacridone Red | | 25 |
| Quinacridone Red Lt. | | 30 |
| Quinacridone Violet | | - |
| Raw Sienna | | 20.24 |
| Raw Sienna Hue | | |
| Raw Umber | | 20,24,25 |
| Raw Umber Hue | | 13 |
| Red Oxide | | 24 |
| Sap Green Hue | | 13,19,24,28 |
| Shading Gray | | 13 |
| Smalt Hue | | 13 |
| Terre Verte Hue | 14,20 | |
| Titan Buff | | 20.33 |
| Titanate Yellow | | 6,28 |
| Titanium White | | 3,5,33 |
| Transparent Brown Iron Oxide | | 13.24 |
| Transparent Red Iron Oxide | | 24 |
| Transparent Yellow Iron Oxide | | 24 |
| Turquoise (Phthalo) | | 7,19 |
| Ultramarine Blue | | - |
| Ultramarine Blue Hue | | 3,5,19,33 |
| Ultramarine Violet | | 5,5,17,55 |
| Van Dyke Brown Hue | | 13.24 |
| Vat Orange | | - |
| Violet Oxide | | 24 |
| Viridian Green Hue | | 28.34 |
| Yellow Ochre | | 20.24. |
| Yellow Oxide | | 24. |
| Zinc White | | 34 |
| —···· | | J4 |

GOLDEN GELS, MEDIUMS, GESSOS & GROUNDS

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| 03001 | Self Leveling Clear Gel | 1,29 |
|-------|-------------------------------|--------------|
| | Soft Gel (Gloss) | 1,29 |
| | Soft Gel (Matte) | 1.5,20.29 |
| | Soft Gel (Semi-gloss) | 1,5,29 |
| | Regular Gel (Gloss) | 1.29 |
| | Regular Gel (Matte) | 1,5,20,29 |
| | Regular Gel (Semi-gloss) | 1,5,29 |
| 03050 | Heavy Gel (Gloss) | 1,29 |
| | | 1,5,20,29 |
| 03070 | Heavy Gel (Semi-gloss) | 1,5,29 |
| | Extra Heavy Gel (Gloss) | 1,29 |
| | Extra Heavy Gel (Matte) | 1,5.20,29 |
| | Extra Heavy Gel (Semi-gloss) | 1,5,29 |
| | Extra Heavy/Molding Paste | 1,11.29 |
| 03120 | High Solid Gel (Gloss) | 1,21.29 |
| 03130 | High Solid Gel (Matte) | 1.5,20,21.29 |
| 03135 | | 1, 29 |
| | OPEN Gel Medium (Matte) | 1.5,29 |
| | Fine Pumice Gel | 1,5,29 |
| | Coarse Pumice Gel | 1,5,29 |
| | Extra Coarse Pumice Gel | 1,5,29 |
| | Clear Granular Gel | 1,29 |
| | Garnet Gels (Fine) | 1.20.29 |
| | Garnet Gels (Coarse) | 1,20,29 |
| | Garnet Gels (Extra Coarse) | 1,20,29 |
| | Glass Bead Gel | 1,21,29 |
| | Fiber Paste | 1,21,25 |
| | Clear Tar Gel | 1,29 |
| | Polymer Medium (Gloss) | 1,29 |
| | Pouring Medium #3 (Custom) | 1,21,29 |
| | Fluid Matte Medium | 1.5,29 |
| | Matte Medium | 1.5.29 |
| 03531 | | 1,20,29 |
| | Airbrush Medium | 1,29 |
| 03537 | Airbrush Transparent Extender | 1,29 |
| | Gesso | 1,5,11,29 |
| 03551 | Sandable Hard Gesso | 1,5,11,29,32 |
| | Absorbent Ground (White) | 1,20,29 |
| | Absorbent Ground (Canvas) | 1,20,29 |
| 03557 | • | 1.12.29.33 |
| 03558 | Silverpoint / Drawing Ground | 1,3,29,33 |
| | Black Gesso | 1,11,20,29 |
| | Molding Paste | 1,11,29 |
| | Hard Molding Paste | 1,11,29 |
| | Coarse Molding Paste | 1,11,29 |
| | Light Molding Paste | 1,29 |
| | Retarder | 29 |
| | OPEN Acrylic Thinner | 29 |
| 03343 | Acrylic Ground for Pastels | 1.20,29 |
| 05040 | Actific Ground for Lasters | 1.20,27 |
| | | |

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| 03670 | Acrylic Modifier for Plaster | 1,29 |
|-------|-------------------------------------|---------|
| 03690 | Silkscreen Medium | 1.29 |
| 03695 | Silkscreen Fabric Gel | 1,22,29 |
| 03720 | Acrylic Glazing Liquid (Gloss) | 1,29 |
| 03721 | Acrylic Glazing Liquid (Satin) | 1.29 |
| 03725 | OPEN Acrylic Fluid Medium | 1.29 |
| 03726 | | 1,5,29 |
| 03750 | Stop Out Varnish | 1,13,29 |
| 03910 | GAC-100 Acrylic | 1,29 |
| 03920 | GAC-200 Acrylic | 1.29 |
| 03940 | GAC-400 Acrylic | 1.22,29 |
| 03950 | GAC-500 Acrylic | 1.29 |
| 03970 | GAC-700 Acrylic | 1.29 |
| 03980 | GAC-800 Acrylic | 1,29 |
| 03990 | GAC-900 Acrylic | 1,22,29 |
| 07750 | Acrylic Topcoat Ultra Matte | 1,5,29 |
| 07770 | Porcelain Restoration Glaze (Gloss) | 1,29 |
| 07771 | Porcelain Restoration Glaze (Matte) | 1.5,29 |
| 08510 | Liquid Thickener (Long Rheology) | - |
| 08520 | Liquid Thickener (Short Rheology) | - |
| | | |

SECTION 2 - HAZARD IDENTIFICATION

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: None expected under normal conditions of use.

Irritation of the nose, throat and lungs is associated with excessive exposure to ammonia. which may occur when large volumes of product are used in an area with limited ventilation.

GAC-400 Acrylic and GAC-900 Acrylic contain formaldehyde, which may irritate the respiratory system, or cause allergic reaction in sensitized individuals. See "Additional Hazards" for formaldehyde, below.

Overexposure to dusts and mists from sanding and spraying may be irritating to the respiratory tract. Chronic exposure to dusts and mists may cause pulmonary diseases.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Contact may be slightly irritating to eyes. Absorbent Ground may cause moderate eye irritation.

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 to gastrointestinal system.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure.

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ADDITIONAL HAZARDS ASSOCIATED WITH SPECIFIED PIGMENTS OR THEIR COMPONENTS IDENTIFIED IN SECTION 3:

CADMIUM- Cadmium Compounds are classified by IARC as probably carcinogenic in humans. OSHA also classifies such compounds as causing lung and kidney disease. WARNING: DO NOT SPRAY APPLY – This product contains cadmium, a chemical known to the State of California to cause cancer by means of inhalation.

CARBON BLACK- IARC classification as Group 2B. possibly carcinogenic to humans **WARNING:** This product contains a chemical known to the State of California to cause cancer.

CERULEAN BLUE- Skin contact may cause allergic sensitization. Ingestion may cause systemic toxicity. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

CRYSTALLINE SILICA- Considered a carcinogen through inhalation overexposure. Also a known cause of silicosis, a noncancerous lung disease. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

COBALT COMPOUNDS- Individuals hypersensitive to Cobalt may develop asthma, bronchitis, or shortness of breath. May cause skin sensitization. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

CHROMIUM- Long term inhalation exposure to trivalent chromium compounds may cause damage to the lungs and respiratory tract. While Chromium and some of its compounds are considered carcinogenic. both in animals and humans, evidence of Chromium (III) compound carcinogenicity is inconclusive.

FORMALDEHYDE- Listed as a suspected human carcinogen by ACGIH, potentially carcinogenic by NIOSH and OSHA, and a known human carcinogen by NTP. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

MANGANESE- Overexposure may affect the Central Nervous System and lungs, resulting in transitory psychosis, tiredness, weakness and pneumonitis. May aggravate preexisting neuralgic conditions.

MELAMINE- Acute exposure may cause eye or respiratory irritation. Chronic feeding studies in male rats resulted in transitional-cell carcinomas.

MICA- Can cause slight lung fibrosis and pneumoconiosis.

NICKEL, METAL AND COMPOUNDS- IARC and NTP also state there is sufficient evidence of carcinogenicity in experimental animals and humans. Ingestion may result in damage to the testes. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

QUINACRIDONES- Overexposure may cause dermatitis. Pigment contains a compound found to be a skin, eye and respiratory irritant.

TITANIUM DIOXIDE- Listed by IARC under category 2B. possibly carcinogenic to humans.

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ZINC- Overexposure may result in fever, chills, muscular pain or nausea. WARNING: DO NOT SPRAY APPLY-This product contains cadmium, a chemical known to the State of California to cause cancer.

SECTION 3 - HAZARDOUS COMPONENT INFORMATION

| | | Max | OSHA PERMISSIBLE EXPOSURE LIMITS | | | | |
|------|-----------------------------|--------|----------------------------------|----|-----------------------|---------------------|---------|
| CODE | | % | CAS NUMBEI | R | TWA | STEL | CEILING |
| 1 | Ammonia | .2 | 7664-41-7 | | | 35 ppm | |
| 2 | Alumina | l | 1344-28-1 | | 10 mg/M ³ | | |
| 3 | Aluminum Hydroxide | 5 | 21645-51-2 | | NE | | |
| 4 | Aluminum Oxide | 20 | 1344-28-1 | | 10 mg/M ³ | | |
| 5 | Amorphous Silica | 10 | 7631-86-9 | | 6 mg/M^3 | | |
| 6 | Antimony and Compounds | 10 | 7440-36-0 | | .5 mg/M ³ | | |
| 7 | Barium Sulfate | 10 | 7727-43-7 | | 10 mg/M^3 | | |
| 8 | Barium, Soluble Compounds | 5 | 7440-39-3 | | $.5 \text{ mg/M}^3$ | | |
| 8.5 | Bismuth Vanadium Oxide | 22 | 7789-82-4 | | 15 mg/M ³ | | |
| 9 | Cadmium Sulfide | 20 | 1306-23-6 | | $5 \mu g/M^3$ (as C | Cadmium) | |
| 10 | Cadmium Selenide | 20 | 1306-24-7 | | $5 \mu g/M^3$ (as C | | |
| 11 | Calcium Carbonate | 25 | 1317-65-3 | | 15 mg/M^3 | , | |
| 12 | Calcium Silicate | 5 | 13983-17-0 | | NE | | |
| 13 | Carbon Black | 25 | 1333-86-4 | | 3.5 mg/M^3 | | |
| 14 | Chromium (III) Compounds | 20 | vary | | .5 mg/M ³ | | |
| 15 | Chromium Metal | 10 | 7440-47-3 | | 1 mg/M ³ | | |
| 16 | CI PY 35 (Cadmium Pigment) | 25 | 8048-07-5 | | $5 \mu g/M^3$ (as C | Cadmium) | |
| 17 | CI PR 108 (Cadmium Pigment) | 25 | 58339-34-7 | | $5 \mu g/M^3$ (as C | | |
| 18 | Cobalt Compounds | 20 | Vary | | , , | , | |
| 19 | Copper | 5 | 7440-50-8 | | l mg/M³ | | |
| 20 | Crystalline Silica | 5 | 14464-46-1 | | $.05 \text{ mg/M}^3$ | | |
| 21 | Dipropylene Glycol- | | | | Ü | | |
| | Monobutyl Ether | 5 | 29911-28-2 | | NE | | |
| 22 | Formaldehyde | .05 | 50-00-0 | | .75 ppm | 2 ppm | |
| 23 | Graphite(natural) | 20 | 7782-42-5 | | 2.5 mg/M ³ | - PP | |
| 24 | Iron Oxide | 25 | 1309-37-1 | | 10 mg/M ³ | | |
| 25 | Manganese compounds 5 | 7439-9 | | NE | | 5 mg/M ³ | |
| 26 | Melamine | 5 | 108-78-1 | | NE | | |
| 27 | Mica | 15 | 12001-26-2 | | 3 mg/M^3 | | |
| 28 | Nickel, metal & compounds | 15 | 7447-02-0 | | .1 mg/M ³ | | |
| 29 | Propylene Glycol | 70 | 57-55-6 | | NE | | |
| 30 | Quaternary Ammonium Salt | 5 | 112-02-7 | | NE | | |
| 31 | Quinacridonequinone | 5 | 1503-48-6 | | NE | | |
| 32 | Talc | 10 | 14807-96-6 | | 2 mg/M^3 | | |
| 33 | Titanium Dioxide | 30 | 13463-67-7 | | 10 mg/M ³ | | |
| 34 | Zinc Oxide | 20 | 1314-13-2 | | 10 mg/M ³ | | |
| 35 | Zinc Sulfide | 10 | 1314-98-3 | | NE | | |

TWA= Time Weighted Average (ave. airborne exposure in 8 hr work shift work week) STEL= Short Term Exposure Limit (15 minute time weighted average exposure)

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CEILING = exposure not to be exceeded during any part of the work day NE = None established mg/M^3 = approximate milligrams of substance per cubic meter of air

SECTION 4 - FIRST AID MEASURES

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: Remove subject to fresh air. SEE DOCTOR if symptoms persist INGESTION: If swallowed, dilute by giving 2 or more glasses of water to drink ONLY IF CONSCIOUS! SEE DOCTOR.

SECTION 5 - FIRE FIGHTING MEASURES

METHOD USED: N/A FLASH POINT: None FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: N/A UPPER: N/A EXTINGUISHING MEDIA: Carbon dioxide, water spray, foam or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and full protective

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Contain spill. Recover material for use or proper disposal. Clean reside with aqueous mopping.

SECTION 7 - HANDLING AND STORAGE

For best product stability, avoid freezing and higher than normal ambient temperatures.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required under normal use. When sanding or spraying, use a NIOSH P100 dust and mist respirator. If conditions warrant, a vapor respirator for protection against ammonia may be used.

VENTILATION: General dilution ventilation is recommended at a level sufficient to keep individuals asymptomatic to inhalation exposure.

PROTECTIVE GLOVES: None required under normal use. For techniques requiring continual hand exposure, gloves are recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required under normal use.

WORK/HYGIENIC PRACTICES: All Golden 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, wash after working with materials.

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SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: >100°C/212°F SPECIFIC GRAVITY (H₂0=1): 1.0-2.0

VAPOR DENSITY: Heavier than air pH: 8.5-9.2

SOLUBILITY IN WATER: Miscibile

APPEARANCE AND ODOR: Milky white or colored- slight ammonia odor

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: May react with strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Paynes Gray, Ultramarine Blue and Ultramarine Violet may react with acids to form flammable and toxic hydrogen sulfide. Acid decomposition of cadmium pigments may yield hydrogen sulfide, selenide gases and toxic cadmium salts in solution. If cadmiums are heated to above 800°C, decomposition to toxic fumes of cadmium oxide, zinc oxide, sulfur dioxide and selenium dioxide will occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral LD50 - rat: >5000 mg/kg Dermal LD50 - rabbit: >5000 mg/kg Eye Irritation – rabbit: minimal Skin Irritation – rabbit: slight

SECTION 12 – ECOLOGICAL INFORMATION

Not readily biodegradable. No other data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose as per local regulations. It is best to use all material, rather than dispose of it. If necessary, dispose of as latex paint. Cadmium pigmented paints and Cobalt Turquoise should be handled as hazardous wastes. US TCLP (metals solubility) data available upon request.

SECTION 14 -TRANSPORT INFORMATION

Not hazardous for shipping via any mode

SECTION 15 – REGULATORY INFORMATION

Consumer Product Labeling: Products are labeled in compliance with 67/548/EEC (EU). FHSA/LHAMA (USA), CCCR (Canada).

SECTION 16 – OTHER INFORMATION

Revision 6/29/09: Name change to 07750 Acrylic Topcoat Ultra Matte

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Revision 2/10/10: Added new colors and mediums 7/20/2011: Updated NTP status of Formaldehyde

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