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GOLDEN ARTIST COLORS, INC.
188 Bell Road
New Berlin, NY 13411
(607) 847-6154
www.goldenpaints.com

GOLDEN
ARTIST COLORS

Material Safety Data Sheet (G1)**SECTION I – PRODUCT IDENTIFICATION**

MSDS Date: 5/05/06

| PAINTS | PRODUCT LINE | Hazardous Ingredients (Sec II) | |
|--------|-----------------------------|-----------------------------------|---|
| | GOLDEN Acrylics | 29, 32, * | * Reference Paint Color following page (pg. 2) for additional hazardous ingredients |
| | GOLDEN Fluid Acrylics | 29, 32, * | |
| | GOLDEN Glazes | 3, 29, 32, * | |
| | GOLDEN Airbrush Colors | 29, 32, * | |
| | GOLDEN Matte Acrylics | 3, 18, 29, 32, * | |
| | GOLDEN Matte Fluid Acrylics | 3, 18, 29, 32, * | |
| | GOLDEN High Load Acrylics | 3, 18, 29, 32, * | |

| MEDIUMS | GOLDEN PRODUCT LINE | Hazardous Ingredients (Sec II) | GOLDEN PRODUCT LINE | Hazardous Ingredients (Sec II) |
|---------|---|-----------------------------------|--|-----------------------------------|
| | <u>GOLDEN Mediums & Molding Pastes</u> | | <u>GOLDEN Mediums</u> | |
| | 3001 Self Leveling Clear Gel | 29, 32 | 3510 Polymer Medium | 29, 32 |
| | 3010 Soft Gel (Gloss) | 29, 32 | 3520 Fluid Matte Medium | 18 |
| | 3013 Soft Gel (Matte) | 3, 18, 29, 32 | 3530 Matte Medium | 18 |
| | 3017 Soft Gel (Semi-Gloss) | 3, 29, 32 | 3535 Airbrush Medium | 29, 32 |
| | 3020 Regular Gel (Gloss) | 29, 32 | 3537 Airbrush Transparent Extender | 29, 32 |
| | 3030 Regular Gel (Matte) | 3, 18, 29, 32 | 3690 Silkscreen Medium | SEE MSDS G2 |
| | 3040 Regular Gel (Semi-Gloss) | 3, 29, 32 | 3720 Acrylic Glazing Liquid (Gloss) | 29, 32 |
| | 3050 Heavy Gel (Gloss) | 29, 32 | 3721 Acrylic Glazing Liquid (Satin) | 29, 32 |
| | 3060 Heavy Gel (Matte) | 3, 18, 29, 32 | 3910 GAC-100 Acrylic | 29, 32 |
| | 3070 Heavy Gel (Semi-Gloss) | 3, 29, 32 | 3920 GAC-200 Acrylic | 29, 32 |
| | 3080 Extra Heavy Gel (Gloss) | 29, 32 | 3940 GAC-400 Acrylic | SEE MSDS G2 |
| | 3090 Extra Heavy Gel (Matte) | 3, 18, 29, 32 | 3950 GAC-500 Acrylic | 29, 32 |
| | 3100 Extra Heavy Gel (Semi-Gloss) | 3, 29, 32 | 3970 GAC-700 Acrylic | 29, 32 |
| | 3110 Extra Heavy Gel / Molding Paste | 29, 32, 33 | 3980 GAC-800 Acrylic | 29, 32 |
| | 3120 High Solid Gel (Gloss) | 29, 32, 35 | 3990 GAC-900 Acrylic | SEE MSDS G2 |
| | 3130 High Solid Gel (Matte) | 3, 18, 29, 32, 35 | 3531 Super Loaded Matte Medium | 18, 29, 32 |
| | 3195 Fine Pumice Gel | 3, 29, 32 | <u>GOLDEN Custom Products</u> | |
| | 3200 Coarse Pumice Gel | 3, 29, 32 | 3300 MSA (Mineral Spirits Acrylic) Gel | SEE MSDS G3 |
| | 3205 Extra Coarse Pumice Gel | 3, 29, 32 | 3557 Crackle Paste | 29, 32 |
| | 3215 Clear Granular Gel | 29, 32 | 3582 Universal Dispersant | SEE MSDS G2 |
| | 3230 Garnet Gel (Fine) | 18, 29, 32 | 3670 Acrylic Modifier for Plaster | 29, 32 |
| | 3232 Garnet Gel (Coarse) | 18, 29, 32 | 7770 Porcelain Restoration Glaze (Gloss) | SEE MSDS G2 |
| | 3234 Garnet Gel (Extra Coarse) | 18, 29, 32 | 7771 Porcelain Restoration Glaze (Matte) | SEE MSDS G2 |
| | 3330 Clear Tar Gel | 29, 32 | 7742 Hard MSA Varnish w/UVLS (Gloss) | SEE MSDS G3 |
| | 3570 Molding Paste | 29, 32, 33 | 7743 Hard MSA Varnish w/UVLS (Satin) | SEE MSDS G3 |
| | 3571 Hard Molding Paste | 29, 32, 33 | 7744 Hard MSA Varnish w/UVLS (Matte) | SEE MSDS G3 |
| | 3575 Light Molding Paste | 29, 32 | 8510 Liquid Thickener (Long Rheology) | - |
| | <u>GOLDEN Additives</u> | | 8520 Liquid Thickener (Short Rheology) | - |
| | 3580 Retarder | 29 | 8610 Defoamer for Fluid Acrylics | SEE MSDS G12 |
| | 3590 Acrylic Flow Release | SEE MSDS G6 | 8620 Defoamer for Heavy Body Acrylics | SEE MSDS G12 |
| | <u>GOLDEN Gessos & Grounds</u> | | | |
| | 3550 Gesso | 2, 3, 26, 29, 32, 33 | | |
| | 3551 Sandable Hard Gesso | 3, 29, 32, 33, 34 | | |
| | 3555 Absorbent Ground (White) | 18, 29, 32 | | |
| | 3556 Absorbent Ground (Canvas) | 18, 29, 32 | | |
| | 3560 Black Gesso | 12, 18, 29, 32, 33 | | |
| | 3640 Acrylic Ground for Pastels | 18, 29, 32 | | |
| | <u>GOLDEN Varnishes</u> | | | |
| | 7710 Polymer Gloss (w/UVLS) | SEE MSDS G5 | | |
| | 7715 Polymer Satin (w/UVLS) | SEE MSDS G5 | | |
| | 7720 Polymer Matte (w/UVLS) | SEE MSDS G5 | | |
| | 7730 MSA Gloss (w/UVLS) | SEE MSDS G3 | | |
| | 7731 Aerosol Archival Varnish – Gloss | SEE MSDS G3A | | |
| | 7735 MSA Satin (w/UVLS) | SEE MSDS G3 | | |
| | 7736 Aerosol Archival Varnish – Satin | SEE MSDS G3A | | |
| | 7740 MSA Matte (w/UVLS) | SEE MSDS G3 | | |
| | 7741 Aerosol Archival Varnish – Matte | SEE MSDS G3A | | |
| | <u>GOLDEN Acrylic Glazing Liquid</u> | | | |
| | 3720 Acrylic Glazing Liquid (Gloss) | 29, 32 | | |
| | 3721 Acrylic Glazing Liquid (Satin) | 29, 32 | | |

| COLORS | COLOR | Hazardous Ingredients (Sec II) | COLOR | Hazardous Ingredients (Sec II) |
|--------|---|-----------------------------------|-------------------------------|-----------------------------------|
| | | | | |
| | Alizarin Crimson Hue | - | Manganese Blue Hue | 27 |
| | Anthraquinone Blue | - | Mars Black | 20 |
| | Anthraquinone Red | - | Mars Yellow | 20 |
| | Aurolein Yellow Hue | 20 | Medium Magenta | 26 |
| | Azurite Hue | 17, 27 | Medium Violet | 26 |
| | Bone Black | - | Micaceous Iron Oxide | 20 |
| | Bright Orange | - | Naphthol Red (Light, Medium) | - |
| | Bright Red Orange | - | Naples Yellow Hue | 20, 26 |
| | Bright Yellow-Green | - | Neutral Gray (All) | 2, 3, 18, 20, 21, 26 |
| | Burnt Sienna | 18, 20 | Nickel Azo Yellow | 21.5, 23 |
| | Burnt Sienna Hue | - | Orange Oxide | 20 |
| | Burnt Umber, Burnt Umber Light | 18, 20, 21 | Paynes Gray | 12 |
| | Cadmium Red Medium Hue | - | Permanent Green Light | 5, 17 |
| | Cadmium Yellow Medium Hue | 4, 23 | Permanent Green Dark | 17 |
| | Canvas Color | 2, 3, 18, 20, 21, 26 | Permanent Violet Dark | - |
| | Carbon Black | 12 | Phosphorescent Colors (All) | 28 |
| | Cerulean Blue | 13, 16 | Phthalo Blue Green Shade | 5, 17 |
| | Cerulean Blue Deep | 13, 16 | Phthalo Blue Red Shade | 17 |
| | Cerulean Blue Hue | 2, 3, 17, 26 | Phthalo Green Blue Shade | 5, 17 |
| | Chrome Oxide Green | 13 | Phthalo Green Yellow Shade | 17 |
| | C.P. Cadmium Orange | 5, 7, 8, 10 | Primary Cyan | 5, 17, 18 |
| | C.P. Cadmium Red (all) | 5, 7, 8, 10 | Primary Magenta | 5, 18 |
| | C.P. Cadmium Yellow (Dk, Light, Med) | 5, 7, 28 | Primary Yellow | 18 |
| | C.P. Cadmium Yellow Primrose | 5, 9 | Prussian Blue Hue | 17 |
| | Coarse Alumina | 2.5, 26 | Pyrrole Colors (All) | - |
| | Cobalt Blue | 16 | Quinacridone Burnt Orange | 11, 25 |
| | Cobalt Blue Hue | 17, 26 | Quinacridone Crimson | 11, 25 |
| | Cobalt Green | 13, 16 | Quinacridone Gold | - |
| | Cobalt Teal | 16 | Quinacridone Magenta | - |
| | Cobalt Titanate Green | 4, 16, 23 | Quinacridone Red | 21 |
| | Cobalt Turquoise | 13, 16 | Quinacridone Red Light | 6, 24 |
| | Cobalt Violet Hue | 27 | Quinacridone Violet | - |
| | Deep Violet | - | Raw Sienna | 18, 20 |
| | Diarylide Yellow | - | Raw Sienna Hue | - |
| | Dioxazine Purple | - | Raw Umber | 18, 20, 21 |
| | Fluorescent Colors (all) | - | Raw Umber Hue | 12 |
| | Graphite Gray | 19 | Red Oxide | 20 |
| | Green Gold | 5.5, 23 | Sap Green Hue | 12, 17, 20, 23 |
| | Hansa Yellow (Light, Med, Opaque) | - | Shading Gray | 12 |
| | Hookers Green Hue (Airbrush) | 12, 17 | Smalt Hue | 12 |
| | Hookers Green Hue (Acrylic Line) | 23 | Terre Verte Hue | 13, 18 |
| | Indian Yellow Hue | 23 | Titan Buff | 18, 26 |
| | Interference Colors (All) | 22, 26 | Titanate Yellow | 4, 23 |
| | Iridescent Black Mica Flake | 22 | Titanium White | 2, 3, 26 |
| | Iridescent Bright Gold | 6, 22, 26 | Transparent Red Iron Oxide | 20 |
| | Iridescent Bronze | 5, 17, 20, 22 | Transparent Yellow Iron Oxide | 20 |
| | Iridescent Copper (all) | 20, 22, 26 | Turquoise (Phthalo) | 5, 17 |
| | Iridescent Copper Light (all) | 20, 22 | Ultramarine Blue | - |
| | Iridescent Gold (and Coarse) | 20, 22, 26 | Ultramarine Blue Hue | 2, 3, 17, 26 |
| | Iridescent Gold Deep | 20, 22, 26 | Ultramarine Violet | - |
| | Iridescent Gold Mica Flake (Sm, Lg) | 22 | Van Dyke Brown Hue | 12, 20 |
| | Iridescent Pearl (and Coarse) | 22, 26 | Vat Orange | - |
| | Iridescent Pearl Mica Flake | 22 | Violet Oxide | 20 |
| | Iridescent Silver | 19, 22, 26 | Viridian Green Hue | 18, 23, 27 |
| | Iridescent Stainless Steel (Crse, Fine) | 14, 23 | Yellow Ochre | 18, 20 |
| | Jenkins Green | 5.5, 17, 23 | Yellow Oxide | 20 |
| | Light Green (Blue Shade) | 26 | Zinc White | 27 |
| | Light Green (Yellow Shade) | 26 | | |
| | Light Magenta | 26 | | |
| | Light Turquoise (Phthalo) | 17, 26 | | |
| | Light Ultramarine Blue | 26 | | |
| | Light Violet | 26 | | |

SECTION II – HAZARDOUS INGREDIENTS

| | | | |
|------|------------------------------------|------------|-------------------------------|
| 1 | Alumina | 1344-28-1 | 10 mg/m ³ |
| 2 | Aluminum Hydroxide | 21645-51-2 | - |
| 2.5 | Aluminum Oxide | 1344-28-1 | 10 mg/m ³ |
| 3 | Amorphous Silica | 7631-86-9 | 6 mg/m ³ |
| 4 | Antimony and Compounds | 7440-36-0 | .5 mg/m ³ |
| 5 | Barium Sulfate | 7727-43-7 | 10 mg/m ³ |
| 5.5 | Barium, Soluble Compounds | 7440-39-3 | .5 mg/m ³ |
| 6 | Basic Nickel Carbonate | 12607-70-4 | 1 mg/m ³ |
| 7 | Cadmium Sulfide | 1306-23-6 | .5 µg/m ³ |
| 8 | Cadmium Selenide | 1306-24-7 | .5 µg/m ³ |
| 9 | Cadmium Zinc Sulfide | 12442-27-2 | .5 µg/m ³ |
| 10 | Cadmium Sulfoselenide | 58339-34-7 | .5 µg/m ³ |
| 11 | Calcium Resinate | 9007-13-0 | - |
| 12 | Carbon Black | 1333-86-4 | 3.5 mg/m ³ |
| 13 | Chromium (III) Compounds | Varies | .5 mg/m ³ |
| 14 | Chromium Metal | 7440-47-3 | 1 mg/m ³ |
| 16 | Cobalt Compounds | Varies | - |
| 17 | Copper | 7440-50-8 | 1 mg/m ³ |
| 18 | Crystalline Silica | 14464-46-1 | .05 mg/m ³ |
| 19 | Graphite (natural) | 7782-42-5 | 2.5 mg/m ³ |
| 20 | Iron Oxide | 1309-37-1 | 10 mg/m ³ |
| 21 | Manganese Compounds (as Mn) | 7439-96-5 | 5 mg/m ³ (ceiling) |
| 21.5 | Melamine | 108-78-1 | - |
| 22 | Mica | 12001-26-2 | 3 mg/m ³ |
| 23 | Nickel, metal and compounds | Varies | .1 mg/m ³ |
| 24 | Quaternary Ammonium Salt | 112-02-7 | - |
| 25 | Quinacridonequinone | 1503-48-6 | - |
| 26 | Titanium Dioxide | 13463-67-7 | 10 mg/m ³ |
| 27 | Zinc Oxide | 1314-13-2 | 10 mg/m ³ |
| 28 | Zinc Sulfide | 1314-98-3 | - |
| 29 | Propylene Glycol | 57-55-6 | - |
| 32 | Ammonia | 7664-41-7 | 35 ppm (STEL) |
| 33 | Calcium Carbonate | 1317-65-3 | 15mg/m ³ |
| 34 | Talc | 14807-96-6 | 2 g/m ³ |
| 35 | Dipropylene Glycol monobutyl Ether | 29911-28-3 | - |

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

| | | | |
|------------------------|------------------|-------------------|-------------------|
| Boiling Point: | >100 C | Specific Gravity: | 1.0 – 2.2 |
| Vapor Density: | Heavier than air | Evaporation Rate: | Slower than ether |
| V.O.C (max g/L): | <u>Actual</u> | | <u>Less Water</u> |
| Heavy Body Colors | 126 | | 281 |
| Fluid Acrylic Colors | 110 | | 254 |
| Golden Glaze Colors | 332 | | 700 |
| Acrylic Glazing Liquid | 340 | | 700 |

Solubility in H₂O: Dilutable

Appearance and Odor: Appearance will vary widely due to pigments, as will viscosity depending on type of paint. Odor will be a slight ammonia odor, if any.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Method Used: N/A
 Flammable Limits: Lower: N/A Upper: N/A
 Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, Water Spray

Special Firefighting Procedures:

Wear self-contained breathing apparatus and full protective gear.

Unusual Fire and Explosion Hazards:

Decomposition and combustion products may be toxic. Material can splatter above 100 C. Dried paint film can support combustion.

SECTION V – REACTIVITY DATA

| | |
|--|--|
| Stability: | Stable |
| Conditions to avoid: | None known |
| Incompatibility: | May react with strong oxidizers |
| Hazardous Decomposition Products: | Thermal decomposition will yield oxides of carbon and nitrogen and monomer fume. Payne's Gray, Ultramarine Blue, Ultramarine Violet may react with acids to form flammable and toxic hydrogen sulfide. Cadmium pigments may react with acids to form hydrogen sulfide and selenide gases and toxic cadmium salts in solution. If cadmium colors are heated to above 800 C, decomposition will yield toxic fumes of cadmium oxide, zinc oxide, sulfur dioxide and selenium dioxide. |
| Hazardous Polymerization | Will not occur. |

SECTION VI – HEALTH HAZARD DATA**Inhalation Health Risks and Symptoms of Exposure:**

Exposure to excessive concentrations of dust (dry pigment or sanding) may cause irritation of the upper respiratory tract. Chronic health effects may result from inhalation of high levels of any nuisance dust of long periods of time making lungs more susceptible to respiratory diseases. Irritation of nose, throat, and lungs is associated with exposure to high levels of ammonia.

Eye Contact Health Risks and Symptoms of Exposure:

May cause eye irritation. Absorbent ground may be particularly irritating to the eyes.

Skin Contact Health Risks and Symptoms of Exposure:

Prolonged or repeated contact can cause irritation.

Ingestion Health Risks and Symptoms of Exposure:

May cause irritation or pain to the gastrointestinal system. Chronic ingestion of dispersions may cause kidney or CNS damage.

Carcinogenicity: Ingredients of some colors may be linked to a carcinogenic response in animal tests or epidemiological data.

ADDITIONAL HAZARDS

Amorphous Silica – Slight skin and mild eye irritant in animal tests

Cadmium – **WARNING: DO NOT SPRAY APPLY.** This product contains cadmium, a chemical known to the State of California to cause cancer by means of inhalation. Cadmium compounds are classified by the IARC as probable human carcinogens. OSHA also classifies these compounds as causing kidney and lung disease.

Carbon Black – **WARNING:** This product contains a chemical known to the State of California to cause cancer. IARC classification of Group 2B, possibly carcinogenic to humans.

Cerulean Blue – Skin contact may cause allergic sensitization. Ingestion may cause systemic toxicity.

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

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 – Chromium and some of its compounds are considered carcinogenic, both in animals and humans. Evidence of Chromium (III) compound carcinogenicity is inconclusive. **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 – **WARNING:** This product contains a chemical known to the State of California to cause cancer. IARC and NTP also state there is sufficient evidence of carcinogenicity in experimental animals and humans. Ingestion may result in damage to the testes.

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

Zinc – **WARNING: DO NOT SPRAY APPLY**—This product contains lead and cadmium, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Overexposure may result in fever, chills, muscular pain or nausea.

Medical Conditions Generally Aggravated by Exposure:

Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure

Emergency and First Aid Procedures:

| | |
|---------------------|---|
| Eye Contact | Flush with water for 15 minutes. If symptoms persist seek medical attention |
| Skin Contact | Wash with soap and water. Remove contaminated clothing. Seek medical attention for irritation. |
| Inhalation | Remove subject to fresh air. Give artificial respiration if breathing has stopped. Seek medical attention. |
| Ingestion | If swallowed, dilute by giving 2 or more glasses of water to drink ONLY IF CONSCIOUS! Seek medical attention. |

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

| | |
|---|--|
| Steps to be Taken in Case of Release or Spill : | Avoid excessive inhalation and skin contact. Contain spilled material. Avoid sweeping dry pigment, use vacuum or wet procedures. |
| Waste Disposal Method: | Dispose of in accordance with federal, state, and local regulation. |
| Precautions to be Taken in Handling and Storage: | Avoid inhalation and skin contact |

SECTION VIII – CONTROL MEASURES

| | |
|-----------------------------------|---|
| Respiratory Protection | In dusty conditions, as occur when handling dry pigments, sanding or spray applying, use a NIOSH approved dust/mist respirator |
| Ventilation | None required under normal use. When using large amounts, adequate ventilation is recommended (e.g. window exhaust fan). |
| Protective Gloves | None required under normal use. For techniques requiring continual hand exposure, gloves are recommended. |
| Other Protective Equipment | Safety glasses with splash protection or goggles |
| Work / Hygiene Practices | Use safe handling practices. Do not eat, drink or smoke when working with materials. Avoid excessive skin contact. Wash after using materials. Keep material from children. |

SECTION IX – TRANSPORTATION INFORMATION

"GOLDEN Acrylics", "GOLDEN Fluid Acrylics", "GOLDEN Matte Acrylics", "GOLDEN High Load Acrylics", "GOLDEN Airbrush Colors", "GOLDEN GAC" products and "GOLDEN Gel Mediums" are water-based acrylic paints and mediums which are not "Dangerous Goods" as classified in the International Air Transport Association's (IATA) Dangerous Goods Regulations. They are not flammable (as described in Class 3 or Class 4 criteria), poisonous or corrosive, nor do they fall within any other class description of "Dangerous Goods".

A "UN NUMBER" does not apply to these materials because such numbers are assigned only to "Dangerous Goods" by the United Nations Committee of Experts on the Transport of Dangerous Goods.

SECTION X – ADDITIONAL INFORMATION AND PRECAUTIONS

While Golden Artist Colors, Inc. believes the data set forth herein is accurate as of the date hereof, Golden Artist Colors, Inc. makes no warranty with respect to the accuracy of this date and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.