

GOLDEN ARTIST COLORS, INC.
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3875



Material Safety Data Sheet (G1)

SECTION I - PRODUCT IDENTIFICATION

MSDS Date: 5/05/06

PAINTS	PRODUCT LINE	Hazardous Ingredients (Sec II)	* Reference Paint Color following page (pg. 2) for additional hazardous ingredients
	GOLDEN Acrylics	29, 32, *	
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)
	GOLDEN Mediums & Molding Pastes			GOLDEN Mediums
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		GOLDEN Custom Products	
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)	-
GOLDEN Additives			8520 Liquid Thickener (Short Rheology)	-
3580 Retarder	29		8810 Defoamer for Fluid Acrylics	SEE MSDS G12
3590 Acrylic Flow Release	SEE MSDS G6		8820 Defoamer for Heavy Body Acrylics	SEE MSDS G12
GOLDEN Gessos & Grounds				
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			
GOLDEN Varnishes				
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			
GOLDEN Acrylic Glazing Liquid				
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
	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
	Carulean Blue	13, 16	Phthalo Blue Green Shade	5, 17
	Carulean Blue Deep	13, 16	Phthalo Blue Red Shade	17
	Carulean 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	Pyrolic 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 (Coarse, 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.