

MATERIAL SAFETY DATA SHEET (G1A)

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SECTION I - PRODUCT IDENTIFICATION

This MSDS applies to pigments, pigment dispersions, and matting agents. For information on a paint, consult this MSDS and Form: G1B, section titled "Golden Acrylic Artist Paints".

PRODUCT NAME	HAZARDOUS COMPONENTS (Sec. II)
Absorbent Ground	2,26
Alizarin Crimson Hue	-
Anthraquinone Blue	-
Anthraquinone Red	-
Black Gesso	12
Bone Black	-
Bright Orange	-
Bright Red Orange	-
Bright Yellow-Green	-
Burnt Sienna	20,18
Burnt Sienna Hue	-
Burnt Umber & Burnt Umber Light	20,21,18
Cadmium Red Medium Hue	-
Cadmium Yellow Medium Hue	4,23
Canvas Color	2,3,18,20,21,26
Carbon Black	12
Cerulean Blue	13,16
Cerulean Blue Deep	13,16
Cerulean Blue Hue	2,3,17,26
Chrome Oxide Green	13
C.P. Cadmium Orange	10,7,8,5
C.P. Cadmium Red (all)	10,7,8,5
C.P. Cadmium Yellow (Dark, Lt., Med.)	7,28,5
C.P. Cadmium Yellow Primrose	5,9
Coarse Alumina	2,5,26
Cobalt Blue	16
Cobalt Blue Hue	26,17
Cobalt Green	13,16
Cobalt Teal	16
Cobalt Titanate Green	16,23,4
Cobalt Turquoise	13,16
Deep Violet	-
Diarylide Yellow	-
Dioxazine Purple	-
Fluorescent (all colors)	-
Gesso	2,26
Glaze Colors (cross reference "Pigment" on label to this list)	-
Graphite Gray	19
Green Gold	23,5,5
Hansa Yellow (Lt., Med. & Opaque)	-
Hookers Green Hue (Airbrush Line)	12,17
Hookers Green Hue (GOLDEN Acrylic Line)	23
Indian Yellow Hue	23
Interference Colors (all)	26,22
Iridescent Black Mica Flake	22
Iridescent Bright Gold	26,22,6
Iridescent Bronze	20,22,17,5
Iridescent Copper (and Coarse)	20,26,22
Iridescent Copper Lt. (and Coarse)	20,22
Iridescent Gold (and Coarse)	20,26,22
Iridescent Gold Deep	20,26,22
Iridescent Gold Mica Flake (Small & Large)	22
Iridescent Pearl (and Coarse)	26,22
Iridescent Pearl Mica Flake	22
Iridescent Silver	19,26,22
Irid. Stain. Steel (Coarse and Fine)	23,14
Jenkins Green	23,17,5,5
Light Green (Blue Shade)	26
Light Green (Yellow Shade)	26
Light Magenta	26
Light Turquoise (Phthalo)	17,26

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Light Ultramarine Blue	26
Light Violet	26
Manganese Blue Hue	27
Mars Black	20
Mars Yellow	20
Medium Magenta	26
Medium Violet	26
Micaceous Iron Oxide	20
Naphthol Red (Lt. & Med.)	-
Naples Yellow Hue	20,26
Neutral Grays (all)	2,3,18,20,21,26
Nickel Azo Yellow	21,5,23
Orange Oxide	20
Paynes Gray	12
Perm. Green Lt.	17,5
Perm. Green Dark	17
Perm. Violet Dark	-
Phosphorescent	27
Phthalo Blue GS	17,5
Phthalo Blue RS	17
Phthalo Green BS	17,5
Phthalo Green YS	17
Primary Cyan	17,18,5
Primary Magenta	5,18
Primary Yellow	18
Prussian Blue Hue	17
Pyrolo Colors (all)	-
Quinacridone Burnt Orange	11,25
Quinacridone Crimson	11,25
Quinacridone Gold	-
Quinacridone Magenta	-
Quinacridone Red	21
Quinacridone Red Lt.	6,24
Quinacridone Violet	-
Raw Sienna	20,18
Raw Sienna Hue	-
Raw Umber	20,21,18
Raw Umber Hue	12
Red Oxide	20
Sap Green Hue	12,17,20,23
Shading Gray	12
Titan Buff	26,18
Titanate Yellow	23,4
Titanium White	3,26,2
Transparent Red Iron Oxide	20
Transparent Yellow Iron Oxide	20
Turquoise (Phthalo)	17,5
Ultramarine Blue	-
Ultramarine Blue Hue	2,3,17,26
Ultramarine Violet	-
Van Dyke Brown Hue	12,20
Vat Orange	-
Violet Oxide	20
Yellow Ochre	20,18
Yellow Oxide	20
Zinc White	27

MATTING AGENTS

Matting Agent - Amorphous	3
Matting Agent - Crystalline	18

PIGMENT DISPERSIONS

(Also see pigment information above)

29,30,31,32

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SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CODE	HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PERMISSIBLE EXPOSURE LIMITS		
			TWA	STEL	CEILING
1	Alumina	1344-28-1	10 mg/M <sup>3</sup>		
2	Aluminum Hydroxide	21645-51-2	NE		
2.5	Aluminum Oxide	1344-28-1	10 mg/M <sup>3</sup>		
3	Amorphous Silica	7631-86-9	6 mg/M <sup>3</sup>		
4	Antimony and Compounds	7440-36-0	.5 mg/M <sup>3</sup>		
5	Barium Sulfate	7727-43-7	10 mg/M <sup>3</sup>		
5.5	Barium, Soluble Compounds	7440-39-3	.5 mg/M <sup>3</sup>		
6	Basic Nickel Carbonate	12607-70-4	1 mg/M <sup>3</sup>		
7	Cadmium Sulfide	1306-23-6	5 µg/M <sup>3</sup> (as Cadmium)		
8	Cadmium Selenide	1306-24-7	5 µg/M <sup>3</sup> (as Cadmium)		
9	Cadmium Zinc Sulfide	12442-27-2	2 mg/M <sup>3</sup> (as Selenium)		
10	Cadmium Sulfoselenide	58339-34-7	5 µg/M <sup>3</sup> (as Cadmium)		
11	Calcium Resinate	9007-13-0	5 µg/M <sup>3</sup> (as Cadmium)		
12	Carbon Black	1333-86-4	NE		
13	Chromium (III) Compounds	varies	3.5 mg/M <sup>3</sup>		
14	Chromium Metal	7440-47-3	.5 mg/M <sup>3</sup>		
16	Cobalt Compounds	Vary	1 mg/M <sup>3</sup>		
17	Copper	7440-50-8	1 mg/M <sup>3</sup>		
18	Crystalline Silica	14464-46-1	.05 mg/M <sup>3</sup>		
19	Graphite(natural)	7782-42-5	2.5 mg/M <sup>3</sup>		
20	Iron Oxide	1309-37-1	10 mg/M <sup>3</sup>		
21	Manganese compounds (as Mn)	7439-96-5	NE	(5 mg/M <sup>3</sup> Ceiling)	
21.5	Melamine	108-78-1	NE		
22	Mica	12001-26-2	3 mg/M <sup>3</sup>		
23	Nickel, metal & compounds	7447-02-0	.1 mg/M <sup>3</sup>		
24	Quaternary Ammonium Salt	112-02-7	NE		
25	Quinacridonequinone	1503-48-6	NE		
26	Titanium Dioxide	13463-67-7	10 mg/M <sup>3</sup>		
27	Zinc Oxide	1314-13-2	10 mg/M <sup>3</sup>		
28	Zinc Sulfide	1314-98-3	NE		
29	Propylene Glycol	57-55-6	NE		
32	Ammonia	7664-41-7	NE	(35 ppm STEL)	

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

SECTION III - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N/A  
 VAPOR DENSITY: Heavier than air  
 V.O.C.: Dry- N/A Dispersions- 1.35 to 2.7 lb./gal  
 SOLUBILITY IN WATER: Insoluble  
 APPEARANCE AND ODOR: Free flowing dry powder or colored liquid, no specific odor.

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.2-5.5  
 EVAPORATION RATE: Slower than ether

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A  
 FLAMMABLE LIMITS IN AIR BY VOLUME: METHOD USED: N/A  
 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 clothing.  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

SECTION V - REACTIVITY DATA

STABILITY: Stable  
 CONDITIONS TO AVOID: None known  
 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 and 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.  
 HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

**MATERIAL SAFETY DATA SHEET (G1A)**

**WASTE DISPOSAL METHOD:** Dispose as per local, state or EPA regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Avoid inhalation and skin contact.

**SECTION VIII - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** In dusty conditions, as occur when handling dry pigments, sanding or spraying, use a NIOSH/MSHA approved dust and mist respirator.

**VENTILATION:** Local exhaust ventilation to control dusting and minimize exposure is recommended. Properly grounded mechanical ventilation is recommended to avoid dust explosions.

**PROTECTIVE GLOVES:** Gloves are recommended.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Safety glasses (with side shields) or goggles.

**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 and wash after use. In addition, keep professional materials, such as dry pigments, out of reach of children.

**SECTION IX - ADDITIONAL PRECAUTIONS AND INFORMATION**

**DISCLAIMER**

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