

MATERIAL SAFETY DATA SHEET

SECTION 1 – COMPANY AND PRODUCT IDENTIFICATION

Golden Artist Colors, Inc.
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WILLIAMSBURG® DRY PIGMENTS

HAZARDOUS COMPONENTS (See Sec. 3)

Item #	Description	
P6000684	Alizarin Crimson	-
P6001022	Bohemian Green Earth	19,24,33,45
P6001561	Brown Ochre	3,20,24,25
P6001484	Brown Pink	24
P6001631	Brown Umber	13,20,24
P6001521	Burnt Sienna	7,20,24
P6001661	Burnt Umber	20,24
P6000685	Carl's Crimson	-
P6000848	Cerulean Blue (Genuine)	3,14,18,32.5
P6000857	Cerulean Blue French	14,18
P6001223	Chromium Oxide	14
P6000927	Cobalt Blue	18
P6000937	Cobalt Blue Deep	18
P6000817	Cobalt Teal Deep	18
P6000907	Cobalt Turquoise Bluish	18
P6000887	Cobalt Turquoise Greenish	14,18
P6000748	Cobalt Violet Deep	18
P6000728	Cobalt Violet Light	18
P6000508	Cobalt Yellow	18
P6001701	Davy's Grey Deep	20
P6001494	Dutch Brown (Transparent)	24
P6000624	Fanchon Red	-
P6001792	German Earth	20,24
P6001702	Graphite Grey	20,23
P6000524	Indian Yellow (Permanent)	-
P6001803	Interference Blue	27,33
P6001893	Interference Green	27,33

P6001873	Interference Red	27,33
P6001813	Interference Violet	27,33
P6001853	Iridescent Bronze	24,27,33
P6001883	Iridescent Copper	24,27,33
P6001823	Iridescent Pale Gold	24,27,33
P6001863	Iridescent Pearl White	27,33
P6001843	Iridescent Pewter	24,27,33
P6000022	Italian Black Roman Earth	13,20,24
P6000023	Italian Burnt Sienna	20,24
P6000017	Italian Green Ochre	20,24
P6000014	Italian Lemon Ochre	20,24
P6000016	Italian Orange Ochre	20,24
P6000018	Italian Pompeii Red	20,24
P6000020	Italian Pozzuoli Earth	20,24
P6000024	Italian Raw Sienna	20,24
P6000025	Italian Raw Umber	20,24
P6000019	Italian Rosso Veneto	20,24
P6000021	Italian Terra Rosa	20,24
P6000013	Italian Terra Verte	20,24
P6000015	Italian Yellow Ochre	20,24
P6001721	Ivory Black	13
P6001761	Lamp Black	13
P6000704	Manganese Violet	25
P6001742	Mars Black	5,24
P6001382	Mars Orange	5,24
P6001422	Mars Red	5,7,24
P6001402	Mars Red Light	5,24
P6001442	Mars Violet	24
P6001362	Mars Yellow Deep	11,24
P6001342	Mars Yellow Light	24
P6000462	Naples Yellow Italian	14
P6000224	Nickel Yellow	28
P6000685	Permanent Crimson	-
P6000423	Permanent Yellow Deep	-
P6000303	Permanent Yellow Light	7,33
P6001004	Phthalo Blue	19
P6001284	Phthalo Green	19
P6001264	Phthalo Green-Yellowish	19
P6000982	Prussian Blue	24
P6000775	Quinacridone Magenta	-
P6000665	Quinacridone Red	-
P6000785	Quinacridone Violet	-
P6001501	Raw Sienna	20,24
P6001621	Raw Umber	13,20,24
P6001581	Red Ochre	3,20,24,25

P6001671	Red Umber	20,24
P6001691	Slate Black	20
P6001601	Spanish Earth	3,20,24,25
P6001464	Stil De Grain	24
P6000101	Titanium White	3,5,33
P6000942	Ultramarine Blue	3
P6000774	Ultramarine Pink	3
P6000764	Ultramarine Violet	3
P6000181	Unbleached Titanium	5,24,33
P6001245	Viridian	14
P6001401	Yellow Ochre (Domestic)	20,24,27,33
P6000141	Zinc White	34

SECTION 2 - HAZARD IDENTIFICATION

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Overexposure to pigment dusts is irritating to the respiratory tract. Chronic exposure, even to otherwise benign dusts, may cause pulmonary diseases. There are additional hazards associated with specific pigments, as detailed below.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Contact may be irritating.

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Contact with some pigments may be irritating or cause allergic reaction.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause irritation to gastrointestinal system. Chronic ingestion of some pigments may be harmful.

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

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

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.

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

CHROMIUM III Compounds- Some chromium compounds are considered carcinogenic, evidence of Chromium (III) compound carcinogenicity is inconclusive.

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

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.

VIRIDIAN- **WARNING:** This products contains 100-200 ppm hexavalent chromium, a chemical known to the State of California to cause cancer.

ZINC WHITE- Overexposure may result in fever, chills, muscular pain or nausea. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 3 - HAZARDOUS COMPONENT INFORMATION

CODE		CAS NUMBER	OSHA PERMISSIBLE EXPOSURE LIMITS	
			TWA	STEL CEILING
3	Aluminum Compounds	45-51-2	NE	
5	Amorphous Silica	7631-86-9	6 mg/M ³	
6	Antimony and Compounds	various	.5 mg/M ³	
7	Barium Sulfate	7727-43-7	10 mg/M ³	
11	Calcium Carbonate	1317-65-3	15 mg/M ³	
13	Carbon Black	1333-86-4	3.5 mg/M ³	
14	Chromium (III) Compounds	various	.5 mg/M ³	
18	Cobalt Compounds	various	.5 mg/M ³	
19	Copper Compounds	various	1 mg/M ³	
20	Crystalline Silica	14464-46-1	.05 mg/M ³	
23	Graphite(natural)	7782-42-5	2.5 mg/M ³	
24	Iron Oxide	1309-37-1	10 mg/M ³	
25	Manganese compounds	7439-96-5	NE	5 mg/M ³
27	Mica	12001-26-2	3 mg/M ³	
28	Nickel compounds	various	.1 mg/M ³	
32.5	Tin compounds	various	NE	
33	Titanium Dioxide	13463-67-7	10 mg/M ³	
34	Zinc Oxide	1314-13-2	10 mg/M ³	

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/M³ = 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

FLASH POINT: None

METHOD USED: N/A

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 clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Large amounts of suspended dusts in a confined area may become an explosion hazard. Decomposition and combustion products may be toxic.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Contain spill. Recover material for use or proper disposal. Clean residue with wet mopping.

SECTION 7 - HANDLING AND STORAGE

Ensure good industrial hygiene when storing and using pigments by keeping containers closed and avoiding contamination of work space through excessive dust generation. Clean work space thoroughly after use.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Wear a NIOSH P100 dust and mist respirator when working with dry pigment.

VENTILATION: Local exhaust ventilation may be warranted, depending on extent of use.

PROTECTIVE GLOVES: Latex gloves are recommended.

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

WORK/HYGIENIC PRACTICES: Use 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.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: NA **SPECIFIC GRAVITY (H₂O=1):** not determined
VAPOR DENSITY: NA **pH:** NA
SOLUBILITY IN WATER: negligible
APPEARANCE AND ODOR: Dry powders of assorted color.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: May react with strong oxidizers
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Ultramarine pigments may react with acids to form flammable and toxic hydrogen sulfide.

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. 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

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