

MATERIAL SAFETY DATA SHEET

MANUFACTURER OR DISTRIBUTOR: M. Grumbacher, Inc.  
 30 Englehard Dr.  
 Cranbury, NJ 08512

INFORMATION TELEPHONE NUMBER: 609-655-8282

EMERGENCY TELEPHONE NUMBER: 800-346-3278

----- SECTION I - PRODUCT IDENTIFICATION -----

PRODUCT NAME: PRE TESTED PRODUCT NO. PTO

PRODUCT SIZES: 37 ML & 150 ML

PRODUCT CLASS: OIL PAINT

----- SECTION II - HAZARDOUS INGREDIENTS -----

INGREDIENT	CAS#	PEL/TLV (MG/M3)	MAX % WEIGHT	NTP	IARC
CADMIUM PIGMENT		0.05	75.3000	N	N
SOLUBLE COBALT	7440-48-4	0.05	0.0431	N	N
LEAD	7439-92-1	0.05	64.0840	N	N
SOLUBLE LEAD	7439-92-1	0.05	64.0840	N	N
SOLUBLE NICKEL	7440-02-0	1.00	0.1936	N	N

----- SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS -----

BOILING POINT: N/A MELTING POINT: N/A  
 VAPOR PRESSURE: N/A  
 SPECIFIC VAPOR DENSITY (ATR=1): N/A SPECIFIC GRAVITY: N/A  
 SOLUBILITY IN WATER: N/A REACTIVITY IN WATER: NON-REACTIVE  
 APPEARANCE AND ODOR:

----- SECTION IV - FIRE AND EXPLOSION INFORMATION -----

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A  
 EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE  
 EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED  
 FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED  
 UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

----- SECTION IV - PHYSICAL HAZARDS/REACTIVITY -----

HAZARDOUS POLYMERIZATION PRODUCTS: NONE  
 STABILITY: STABLE CONDITIONS TO AVOID: NONE  
 INCOMPATIBILITY (MATERIALS TO AVOID): NONE  
 HAZARDOUS DECOMPOSITION PRODUCTS: NONE

COMPANY: M. GRUMBACHER, INC.      PRODUCT: PTO  
BRAND NAME: PRE TESTED

----- SECTION VI - HEALTH HAZARD DATA -----

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT PEL/TLVs

PRIMARY ROUTES OF ENTRY:    INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE:    MAY BE HARMFUL IF SWALLOWED.

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE:    EXPOSURE MAY CAUSE DAMAGE TO THE TESTES.    EXPOSURE MAY CAUSE DAMAGE TO THE HEART.    EXPOSURE MAY CAUSE NERVOUS SYSTEM, KIDNEY OR BONE MARROW DAMAGE.    EXPOSURE MAY CAUSE HARM TO THE DEVELOPING FETUS.    EXPOSURE MAY RESULT IN FATIGUE.    CHRONIC EXPOSURE MAY RESULT IN WEAKNESS OF MUSCLES AND PAIN AND TINGLING IN THE EXTREMITIES.    CHRONIC EXPOSURE MAY RESULT IN DIFFICULTY WITH REPRODUCTION (CHILD BEARING).

CARCINOGEN LISTING:    NTP: NO    IARC: NO    OSHA: NO  
SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: CHRONIC DERMATITIS.    KIDNEY DISEASE.    ANEMIA.    PREGNANCY.    HEART DISEASE.

FIRST AID MEASURES: If swallowed, get prompt medical attention.

----- SECTION VII - SPILL OR LEAK PROCEDURES -----

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: KEEP OUT OF REACH OF CHILDREN.

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

----- SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES -----

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: When mixing or handling dry material, use NIOSH-certified mask for dusts or mists.

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC.): Wear a work apron

WORK/HYGIENE PRACTICES: Do not spray apply. Wash hands immediately after use. When using do not eat, drink or smoke. Avoid using if pregnant or contemplating pregnancy.

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Form Completed by: Woodhall Stopford, MD, MSPH  
Last Updated:        03/11/92

# TECHNICAL INFORMATION

## PRE-TESTED® OIL COLORS

Alizarin Crimson	Synthetic 1:2 Dihydroxyanthraquinone on Alumina Base (PR83) 58000	III □
Alizarin Crimson Golden	Synthetic 1:2 Dihydroxyanthraquinone on Alumina Base (PR83) 58000	III □
Brown Madder	Synthetic 1:2 Dihydroxyanthraquinone on Alumina Base, Calcined Natural Iron Oxide, Nearly pure Amorphous Carbon (PR83) 58000, (PBk6) 77266, (PBr7) 77492	III □
Burnt Sienna	Calcined Natural Iron Oxide (PBr7) 77492	I □
Burnt Umber	Calcined Natural Iron Oxide containing Manganese (PBr7) 77492	I ■
Cadmium-Barium Orange	Cadmium Sulfo-Selenide Coprecipitated with Barium Sulfate and Cadmium Seleno-Sulfide Coprecipitated with Barium Sulfate (PO20:1) 77202:1, (PR108:1) 77202:1	I ■
Cadmium-Barium Red, Deep	Cadmium Seleno-Sulfide Coprecipitated with Barium Sulfate (PR108:1) 77202:1	I ■
Cadmium-Barium Red, Light	Cadmium Seleno-Sulfide Coprecipitated with Barium Sulfate and Cadmium Sulfo-Selenide Coprecipitated with Barium Sulfate (PR108:1) 77202:1, (PO20:1) 77202:1	I ■
Cadmium-Barium Red, Medium	Cadmium Seleno-Sulfide Coprecipitated with Barium Sulfate (PR108:1) 77202:1	I ■
Cadmium Vermilion	Cadmium Seleno-Sulfide Coprecipitated with Barium Sulfate (PR108:1) 77202:1	I ■
Cadmium-Barium Yellow, Deep	Cadmium Sulfide Coprecipitated with Barium Sulfate and Cadmium Sulfo-Selenide Coprecipitated with Barium Sulfate (PY37:1) 77199:1, (PO20:1) 77202:1	I ■
Cadmium-Barium Yellow, Light	Cadmium Zinc Sulfide Coprecipitated with Barium Sulfate (PY35:1) 77205:1	I ■
Cadmium-Barium Yellow, Medium	Cadmium Sulfide Coprecipitated with Barium Sulfate and Cadmium Sulfo-Selenide Coprecipitated with Barium Sulfate (PY37:1) 77199:1, (PO20:1) 77202:1	I ■
Cadmium-Barium Yellow, Orange	Cadmium Sulfide Coprecipitated with Barium Sulfate and Cadmium Sulfo-Selenide Coprecipitated with Barium Sulfate (PY37:1) 77199:1, (PO20:1) 77202:1	I ■
Cadmium-Barium Yellow, Pale	Cadmium Zinc Sulfide Coprecipitated with Barium Sulfate (PY35:1) 77205:1	I ■
Cerulean Blue	Copper Phthalocyanine, Zinc Oxide, and Amorphous Carbon Produced by Charring Animal Bones (PB15) 74160, (PW4) 77947, (PBk9) 77267	I ■
Chromium Oxide Green (Opaque)	Anhydrous Chromium Sesquioxide (PG17) 77288	I ■
Cobalt Blue	Oxides of Cobalt and Aluminum (PB28) 77346	I □
Cobalt Violet	Anhydrous Cobalt Phosphate and Manganese Ammonium Phosphosphate (PV14) 77360, (PV16) 77742	I □
Copper Hue	Synthetic Red Iron Oxide and Titanium Dioxide on Mica (PR101) 77491, (PW6) 77891, (PW20) 77019	I ■
Flake White	Basic Lead Carbonate and Zinc Oxide (PW1) 77597, (PW4) 77947	I ■
Flesh	Hydrated Natural Iron Oxide, Red Iron Oxide, and Zinc Oxide (PY43) 77492, (PR101) 77491, (PW4) 77947	I ■
French Ultramarine Blue	Complex Silicate of Sodium and Aluminum with Sulfur (PB29) 77007	I □
Gold Hue	Synthetic Yellow Iron Oxide and Titanium Dioxide on Mica (PY42) 77492, (PW6) 77891, (PW20) 77019	I ■
Gold Ochre Transparent	Natural Hydrated Iron Oxide, Synthetic Hydrated Iron Oxide, Natural Iron Oxide, and Synthetic Red Iron Oxides (Yellowish Hue) (PY43) 77492, (PBr7) 77492, (PR101) 77491, (PY42) 77492	I □

## PRE-TESTED® OIL COLORS

Green Earth (Terre Verte)	Natural Iron Oxide Containing Manganese Natural Hydrated Iron Oxide, Synthetic Black Iron Oxide and Hydrous Chromium Sesquioxide (PBr7) 77492, (PY43) 77492, (PBk11) 77499, (PG18) 77289	I □
Grumbacher Red (Naphthol Red AS-D)	Naphthol AS-D (PR112) 12370	II ■
Indian Red	Synthetic Red Iron Oxide (Bluish Hue) (PR101) 77491	I ■
Ivory Black	Amorphous Carbon Produced by Charring Animal Bones (PBk9) 77267	I □
Light Red (English Red, Light)	Synthetic Red Iron Oxide (Yellowish Hue) (PR101) 77491	I ■
Manganese Blue	Barium Manganate with Barium Sulfate (PB33) 77112	I ■
Mars Black	Synthetic Black Iron Oxide (PBk11) 77499	I ■
Mars Red	Synthetic Red Iron Oxide (Yellow Hue) (PR101) 77491	I ■
Mars Violet	Synthetic Iron Oxide (Violet Hue) (PR101) 77015	I ■
Mars Yellow	Synthetic Hydrated Iron Oxide (PY42) 77492	I ■
Naples Yellow	Calcined Natural Iron Oxide, Concentrated Cadmium Seleno-Sulfide, Cadmium Zinc Sulfide Coprecipitated with Barium Sulfate, and Zinc Oxide (PBr7) 77492, (PR108) 77202, (PY35:1) 77205:1, (PW4) 77947	I ■
Payne's Gray	Nearly Pure Amorphous Carbon, and Complex Silicate of Sodium and Aluminum with Sulfur (PBk6) 77266, (PB29) 77007	I □
Permanent Blue (Ultramarine Blue)	Complex Silicate of Sodium and Aluminum with Sulfur (PB29) 77007	I □
Permanent Bright Green	Arylide Yellow 10G, Chlorinated Copper Phthalocyanine, Nearly Pure Amorphous Carbon, and Zinc Oxide (PY3) 11710, (PG7) 74260, (PBk6) 77266, (PW4) 77947	II ■
Permanent Green, Light	Hydrous Chromium Sesquioxide and Arylide Yellow 10G (PG18) 77289, (PY3) 11710	II ■
Prussian Blue	Ferri-Ammonium Ferrocyanide (PB27:1) 77510:1	I □
Raw Sienna	Natural Iron Oxide (PBr7) 77492	I □
Raw Umber	Natural Iron Oxide containing Manganese and Synthetic Black Iron Oxide (PBr7) 77492, (PBk11) 77499	I ■
Rose Madder	1:2 Dihydroxyanthraquinone on Alumina Base (PR83) 58000	III □
Sap Green	Quinacridone Deep Gold and Chlorinated Copper Phthalocyanine (PO49) N.A., (PG7) 74260	I □
Terra Rosa	Synthetic Red Iron Oxides (Yellowish Hue and Bluish Hue) PR101 77491	I ■
Thalo® Blue (Phthalocyanine Blue)	Copper Phthalocyanine (PB15) 74160	I □
Thalo® Green (Phthalocyanine Green)	Chlorinated Copper Phthalocyanine (PG7) 74260	I □
Thalo® Red Rose (Quinacridone Red)	Gamma Quinacridone Red (PV19) 46500	I □
Thalo® Yellow Green	Chlorinated Copper Phthalocyanine, Arylide Yellow 10G, and Zinc Oxide (PG7) 74260, (PY3) 11710, (PW4) 77947	II ■
Thio™ Violet (Thio Indigoid)	Thioindigoid (PR88) 73312	I □

■ Opaque □ Transparent

I Excellent Lightfastness II Very Good Lightfastness III Moderate Lightfastness IV Fugitive

# TECHNICAL INFORMATION

## PRE-TESTED<sup>®</sup> OIL COLORS

Titanium White (Original and Soft Formula)	Titanium Dioxide and Zinc Oxide (PW6) 77891, (PW4) 77947	I ■
Ultramarine Red	Complex Silicate of Sodium and Aluminum (PV15) 77007	I □
Van Dyck Brown	Natural Lignite-Based Earth Color (Natural Brown 8) N.A.	III □
Venetian Red	Synthetic Iron Oxide (Reddish Hue) (PR101) 77491	I ■
Viridian (Vert Emeraude)	Hydrous Chromium Sesquioxide (PG18) 77289	I □
Yellow Ochre	Natural Hydrated Iron Oxide and Synthetic Hydrated Iron Oxide (PY43) 77492, (PY42) 77492	I ■
Zinc White	Zinc Oxide (PW4) 77947	I ■
Zinc Yellow Hue (Lemon Yellow)	Arylide Yellow 10G and Zinc Oxide (PY3) 11710, (PW4) 77947	II ■