

MATERIAL SAFETY DATA SHEET

000852

Date of Preparation: September 16, 1988

SECTION I

Manufacturer : Binney & Smith Company
 Address : P.O. Box 546
 Winfield, Kansas 67156

Telephone : 316-221-4200
 Emergency : 316-221-4200

Product Class: Artist Oil Paints
 Mfg. Code ID : Series 1143, 1144, 1147

- H M I S -

Health	: 1
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,
 4=extreme, 5=chronic)

112 - ACRA Red	244 - Ivory Black	330 - Raw Siena
114 - ACRA Violet	252 - Lemon Yellow Hansa	344 - Rose Madder
116 - Alizarine Crimson	276 - Mars Black	380 - Ultramarine Blue
127 - Burnt Siena	291 - Naples Yellow Hue	392 - Venetian Red
151 - Lacquer Red/Cad. Red Medium Hue	309 - Permanent Indian Yellow	410 - Chinese Red
184 - Dirty Green	310 - Payne's Gray	413 - Yellow Ochre
186 - Dioxazine Purple	311 - Deep Brilliant Red	421 - Zinc Yellow Hue
200 - Medium Portrait Pink	315 - Permanent Sap Green	430 - Zinc Everwhite
221 - Hansa Yellow Light	316 - Phthalocyanine Blue	510 - Scarlet Red/Cad. Red Light Hue
222 - Hansa Yellow Medium	317 - Phthalocyanine Green	304 - Gold
	318 - Prussian Blue	306 - Silver

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Component

CAS #

Vapor Pressure
mm Hg

None

N/A

N/A

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL/TWA

ACGIH TLV/TWA

N/A

N/A

N/A

SECTION III

PHYSICAL DATA

Boiling point : not established > 300°F
 Evaporation rate : < 1 (ether = 1)
 Vapor density : > 1 (air = 1)

% Volatile by volume: < 1%
 Weight per gallon : 8-24 lbs.
 Specific gravity : 1.58 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact: Inert, nuisance particulate dust.

Skin contact: Non-toxic.

Inhalation: Inert, nuisance particulate dust. See Section X.

Ingestion: This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms: No specific hazard is known.

Aggravated medical conditions: Pre-existing skin, eye and respiratory disorders, impaired functions from pre-existing disorders may be aggravated by exposure to this product.

Other health effects: Products have been certified as non-toxic by the Art & Craft Materials Institute and conform to ASTM D4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact: Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and treat symptomatically.

Ingestion: Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point: > 300°F

Extinguishing media: Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions: None known.

Unusual fire and explosion hazards: None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation - For dust and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

For Air Brushing: Use NIOSH-certified respirator. Do not inhale spray from air brush. Use window exhaust fan to remove vapors and assure adequate cross ventilation.

For Sanding Dried Paint: Use NIOSH-certified respirator. Do not inhale from sanding operation.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.

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Health	: 1
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,
 4=extreme, 5=chronic)

118 - Barn Red
 125 - Brownish Madder
 128 - Burnt Umber
 214 - Green Earth Hue
 216 - Greenish Umber
 293 - Olive Green
 308 - Permanent Asphaltum
 331 - Raw Umber
 390 - Van Dyke Brown

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Raw and Burnt Umber pigments contain some silica and manganese dioxide which are listed in OSHA Standard 29 CFR Section 1910.1000 for air contaminants.

Component	CAS #	Vapor Pressure mm Hg
Raw and Burnt Umber Pigments	12713-03-0	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	OSHA PEL/TWA	ACGIH TLV/TWA
Silica - Z-3 crystalline quartz CAS 14808-60-7	10 mg/m ³	N/A
Manganese - Z-1 CAS 7439-96-5	5 mg/m ³	5 mg/m ³

SECTION III

PHYSICAL DATA

Boiling point : not established > 300°F
 Evaporation rate : < 1 (ether = 1)
 Vapor density : > 1 (air = 1)

% Volatile by volume: < 1%
 Weight per gallon : 11-14 lbs.
 Specific gravity : 1.53 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact : Inert, nuisance particulate dust.

Skin contact : Non-toxic.

Inhalation : Inert, nuisance particulate dust. See Section X.

Ingestion : This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms : No specific hazard is known.

Aggravated medical conditions : Pre-existing skin, eye and respiratory disorders, impaired functions from pre-existing disorders may be aggravated by exposure to this product.

Other health effects : Products have been certified as non-toxic by the Art & Craft Materials Institute and conform to ASTM D4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact : Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact : Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and treat symptomatically.

Ingestion : Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point : > 300°F

Extinguishing media : Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions : None known.

Unusual fire and explosion hazards : None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation - For dust and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand, or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

For Air Brushing: Use NIOSH-certified respirator. Do not inhale spray from air brush. Use window exhaust fan to remove vapors and assure adequate cross ventilation.

For Sanding Dried Paint: Use NIOSH-certified respirator. Do not inhale from sanding operation.

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Flammability	: 0
Reactivity	: 0
Personal Protection	: *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,
 4=extreme, 5=chronic)

121 - Brilliant Yellow Light	500 - Medium Magenta	770 - Permanent Light Blue
165 - Cerulean Blue Hue Phthalo	550 - Brilliant Green	790 - Permanent Light Violet
300 - Deep Magenta	560 - Turquoise Green	799 - Neutral Gray - Value 3
381 - Brilliant Blue Purple	570 - Brilliant Blue	810 - Light Portrait Pink
399 - Neutral Gray - Value 3	590 - Brilliant Purple	830 - Brilliant Yellow
431 - Titanium Zinc Everwhite	599 - Neutral Gray - Value 5	840 - Brilliant Yellow Green
432 - Titanium White	660 - Bright Aqua Green	435 - Texture White
434 - Unbleached Titanium	680 - Light Blue Violet	Underpaint
436 - Parchment	700 - Light Magenta	
450 - Emerald Green	720 - Brilliant Orange	
499 - Neutral Gray - Value 4	740 - Vivid Lime Green	

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

These paints contain the following pigments listed in OSHA Standard 29 CFR Section 1910.1000, Tables Z-1 or Z-3 for air contaminants:

Component	CAS #	Vapor Pressure mm Hg
1. Titanium Dioxide	13464-67-7	N/A
2. Amorphous Silica	7631-86-9	N/A

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	OSHA PEL/TWA	ACGIH TLV/TWA
1. Titanium Dioxide	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable)	10 mg/m ³ (Total dust) 5 mg/m ³ (Respirable)
2. Amorphous Silica	80 mg/m ³ % silica	10 mg/m ³

SECTION III

PHYSICAL DATA

Boiling point : not established > 300°F	% Volatile by volume: < 1%
Evaporation rate : < 1 (ether = 1)	Weight per gallon : 11-21 lbs.
Vapor density : > 1 (air = 1)	Specific gravity : 2.10 (H ₂ O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact: Inert, nuisance particulate dust. Amorphous silica can affect the body if it comes in contact with the eyes.

Skin contact: Non-toxic.

Inhalation: Inert, nuisance particulate dust. See Section X. Prolonged inhalation of amorphous silica may cause silicosis with scarring of the lungs, cough, and shortness of breath.

Ingestion: This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms: No specific hazard is known.

Aggravated medical conditions: Pre-existing skin, eye and respiratory disorders, impaired functions from pre-existing disorders may be aggravated by exposure to this product.

Other health effects: Products have been certified as non-toxic by the Art & Craft Materials Institute and conform to ASTM D4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact: Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and treat symptomatically.

Ingestion: Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point: > 300°F

Extinguishing media: Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions: None known.

Unusual fire and explosion hazards: None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide, and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation - For dust and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

For Air Brushing: Use NIOSH-certified respirator. Do not inhale spray from air brush. Use window exhaust fan to remove vapors and assure adequate cross ventilation.

For Sanding Dried Paint: Use NIOSH-certified respirator. Do not inhale from sanding operation.

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Winfield, Kansas 67156

Telephone : 316-221-4200
Emergency : 316-221-4200

Product Class : Artist Oil Paints
Mfg. Code ID : Series 1143, 1144

- H M I S -

Health	: 3
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high, 4=extreme, 5=chronic) *See Section VIII

- 150 - Cadmium Orange
- 152 - Cadmium Red Light
- 153 - Cadmium Red Medium Light
- 154 - Cadmium Red Medium Deep
- 155 - Cadmium Red Deep

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Cadmium dust is listed on OSHA Standard 29 CFR Section 1910.1000, Table Z-2 for air contaminants. Cadmium and cadmium compounds are listed as an undifferentiated group on IARC and NTP as carcinogenic to animals.

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure</u> mm Hg
Cadmium Sulfoselenide	58339-34-7	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>
As cadmium dust	0.20 mg/m ³	0.05 mg/m ³

SECTION III

PHYSICAL DATA

Boiling point : not established >300°F
Evaporation rate : < 1 (ether = 1)
Vapor density : > 1 (air = 1)

% Volatile by volume : < 1%
Weight per gallon : 17-20 lbs.
Specific gravity : 2.25 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact : Inert, nuisance particulate dust.

Skin contact : Non-toxic.

Inhalation : Do not spray apply. Avoid breathing dusts and mists. See Sections VIII & X.

Ingestion : This product may be irritating to the gastrointestinal tract if ingested.

Signs and Symptoms : No specific hazard is known.

Aggravated medical conditions : Pre-existing skin, eye and respiratory disorders, impaired functions from pre-existing disorders may be aggravated by exposure to this product.

Other health effects : Long-term exposure to metallurgical or soluble cadmium may lead to kidney disfunction.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact : Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact : Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and treat symptomatically. Seek medical attention.

Ingestion : Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point : > 300°F

Extinguishing media : Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions : None known.

Unusual fire and explosion hazards : None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation - For dust and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

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Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

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Product Class: Artist Oil Paints
 Mfg. Code ID : Series 1143, 1144

- H M I S -

Health	: 4
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high, 4=extreme, 5=chronic) * See Section VIII & X

160 - Cadmium Yellow Light
 161 - Cadmium Yellow Medium
 162 - Cadmium Yellow Deep
 312 - Permanent Green Light
 314 - Permanent Green Deep

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Cadmium agent by inhalation based on tests with laboratory animals. Contains cadmium sulfide.

Component	CAS #	Vapor Pressure mm Hg
Cadmium Sulfide	1306-23-6	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	OSHA PEL/TWA	ACGIH TLV/TWA
As cadmium dust	0.20 mg/m ³	0.05 mg/m ³

SECTION III

PHYSICAL DATA

Boiling point : not established > 300°F
 Evaporation rate : < 1 (ether = 1)
 Vapor density : > 1 (air = 1)

% Volatile by volume: < 1%
 Weight per gallon : 13-18 lbs.
 Specific gravity : 2.06 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact : Inert, nuisance particulate dust.

Skin contact : Non-toxic.

Inhalation : Do not spray apply. Avoid breathing dusts and mists. See Sections VIII & X.

Ingestion : This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms : No specific hazard is known.

Aggravated medical conditions : Pre-existing skin, eye and respiratory disorders, impaired functions from pre-existing disorders may be aggravated by exposure to this product.

Other health effects : Long-term exposure to metallurgical or soluble cadmium may lead to kidney disfunction.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact : Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact : Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and treat symptomatically. Seek medical attention.

Ingestion : Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point : > 300°F

Extinguishing media : Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions: None known.

Unusual fire and explosion hazards: None known.

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SECTION VII

REACTIVITY

Stability: StableHazardous polymerization: Will not occurConditions and materials to avoid: None known.Hazardous decomposition products: Carbon dioxide, carbon monoxide, and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation. Use window exhaust fan to remove vapors and assure adequate cross ventilation. For dusts and mists, use NIOSH-certified mask.Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

DO NOT SPRAY APPLY. Contains cadmium sulfide.

Not for use by children.

For further health information contact your poison control center.

For sanding dried paint - Use NIOSH-certified respirator. Do not inhale from sanding operation.

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Emergency : 316-221-4200

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Mfg. Code ID : Series 1144

- H M I S -

Health	: 2
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,
4=extreme, 5=chronic)

164 - Cerulean Blue

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Cerulean Blue paint contains the following mixture listed in OSHA Standard 29 CFR Section 1910.1000 for air contaminants.

Component	CAS #	Vapor Pressure mm Hg
Zinc chrome cobalt aluminate	74665-01-3	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	OSHA PEL/TWA	ACGIH TLV/TWA
Cobalt Oxide	0.1 mg/m ³	0.05 mg/m ³
Chromium Oxide	0.5 mg/m ³	0.5 mg/m ³
Zinc Oxide	5 mg/m ³	10 mg/m ³
Aluminum Oxide	15 mg/m ³	10 mg/m ³

SECTION III

PHYSICAL DATA

Boiling point : not established >300°F
Evaporation rate : < 1 (ether = 1)
Vapor density : > 1 (air = 1)

% Volatile by volume: < 1%
Weight per gallon : 15 lbs.
Specific gravity : 1.86 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact: Prolonged or repeated contact with pigment dust may cause irritation.

Skin contact: Pigment dust can cause irritation and may cause sensitization or allergic skin reaction.

Inhalation: Pigment dust can cause irritation of upper respiratory tract. Individuals hypersensitive to cobalt may develop asthma, bronchitis, shortness of breath, or wheezing.

Ingestion: This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms: None known.

Aggravated medical conditions: Pre-existing skin, eye and respiratory disorders, impaired function from pre-existing disorders may be aggravated by exposure to this product.

Other health effects: Products have been certified as non-toxic by the Art & Craft Materials Institute and conform to ASTM D4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact: Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and treat symptomatically.

Ingestion: Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point: >300°F

Extinguishing media: Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions: None known.

Unusual fire and explosion hazards: None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation - For dust and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

For Air Brushing: Use NIOSH-certified respirator. Do not inhale spray from air brush. Use window exhaust fan to remove vapors and assure adequate cross ventilation.

For Sanding Dried Paint: Use NIOSH-certified respirator. Do not inhale from sanding operation.

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Telephone : 316-221-4200

Emergency : 316-221-4200

Product Class: Artist Oil Paints

Mfg. Code ID : Series 1144

166 - Chromium Oxide Green
 398 - Viridian

- H M I S -

Health : 1

Flammability : 0

Reactivity : 0

Personal Protection : *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,
 4=extreme, 5=chronic)

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Chromium Oxide is listed as a hazardous chemical in OSHA Standard 29 CFR
 Section 1910.1000.

Component	CAS #	Vapor Pressure mm Hg
Chromium Oxide	1308-38-9	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	OSHA PEL/TWA	ACGIH TLV/TWA
Chromium Oxide	1 mg/m ³	0.5 mg/m ³

SECTION III

PHYSICAL DATA

Boiling point : not established > 300°F
 Evaporation rate : < 1 (ether = 1)
 Vapor density : > 1 (air = 1)

% Volatile by volume: < 1%
 Weight per gallon : 12-19 lbs.
 Specific gravity : 1.97 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact : Inert, nuisance particulate dust.

Skin contact : Non-toxic

Inhalation : Inert, nuisance particulate dust. See Section X.

Ingestion: This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms : No specific hazard is known.

Aggravated medical conditions : Pre-existing skin, eye and respiratory disorders, impaired functions from pre-existing disorders may be aggravated by exposure to this product.

Other health effects: Repeated and prolonged exposure to Trivalent chromium compounds may cause delayed effects involving the respiratory system. Products have been certified as non-toxic by the Art & Craft Materials Institute and conform to ASTM D4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact. Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact : Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and treat symptomatically.

Ingestion : Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point : > 300°F

Extinguishing media : Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions : None known.

Unusual fire and explosion hazards : None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation - For dust and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

For Air Brushing: Use NIOSH-certified respirator. Do not inhale spray from air brush. Use window exhaust fan to remove vapors and assure adequate cross ventilation.

For Sanding Dried Paint: Use NIOSH-certified respirator. Do not inhale from sanding operation.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.

MATERIAL SAFETY DATA SHEET

5-1

Date of Preparation: September 16, 1988

SECTION I

Manufacturer : Binney & Smith Company
Address : P.O. Box 546
Winfield, Kansas 67156

Telephone : 316-221-4200
Emergency : 316-221-4200

Product Class: Artist Oil Paints
Mfg. Code ID : Series 1143, 1144

170 - Cobalt Blue

- H M I S -

Health	: 2
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high, 4=extreme, 5=chronic)

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

This paint contains the following pigment listed in OSHA Standard 29 CFR Section 1910.1000, Table Z-1 for air contaminants:

Component	CAS #	Vapor Pressure mm Hg
Cobalt Aluminate	1345-16-0	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	OSHA PEL/TWA	ACGIH TLV/TWA
Cobalt, metal, dust & fume	0.1 mg/m ³	0.1 mg/m ³

SECTION III

PHYSICAL DATA

Boiling point : not established > 300°F
Evaporation rate : < 1 (ether = 1)
Vapor density : > 1 (air = 1)

% Volatile by volume: < 1%
Weight per gallon : 13 lbs.
Specific gravity : 1.63 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact : Inert, nuisance particulate dust.

Skin contact : Non-toxic.

Inhalation : Inert, nuisance particulate dust. See Section X.

Ingestion : This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms : No specific hazard is known.

Aggravated medical conditions : Pre-existing skin, eye and respiratory disorders, impaired functions from pre-existing disorders may be aggravated by exposure to this product.

Other health effects : Repeated overexposure to this pigment dust may cause eye, skin, and respiratory tract irritation. Products have been certified as non-toxic by the Art & Craft Materials Institute and conform to ASTM D4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact : Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact : Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and treat symptomatically.

Ingestion : Consult a physician, hospital or poison control center if product is ingested.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIIB
- DOT: not regulated

Flash point : > 300°F

Extinguishing media: Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions : None known.

Unusual fire and explosion hazards : None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation - For dust and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

For Air Brushing: Use NIOSH-certified respirator. Do not inhale spray from air brush. Use window exhaust fan to remove vapors and assure adequate cross ventilation.

For Sanding Dried Paint: Use NIOSH-certified respirator. Do not inhale from sanding operation.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.

MATERIAL SAFETY DATA SHEET

Date of Preparation: September 16, 1988

SECTION I

Manufacturer : Binney & Smith Company
 Address : P.O. Box 546
 Winfield, Kansas 67156

Telephone : 316-221-4200
 Emergency : 316-221-4200

Product Class: Artist Oil Paints
 Mfg. Code ID : Series 1144

290 - Naples Yellow

- H M I S -

Health	: 4
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,
 4=extreme, 5=chronic)

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Lead and compounds and antimony and compounds are listed in OSHA Standard 29 CFR 1910.1025.

Component	CAS #	Vapor Pressure mm Hg
Lead antimonate	7439-92-1	N/A
Antimony compounds	68186-85-6	N/A

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	OSHA PEL/TWA	ACGIH TLV/TWA
Lead & compounds	50 mg/m ³ as lead	N/A
Antimony & compounds	0.5 mg/m ³ as antimony	0.5 mg/m ³ as antimony

SECTION III

PHYSICAL DATA

Boiling point : not established >300°F
 Evaporation rate : < 1 (ether = 1)
 Vapor density : > 1 (air = 1)

3-Volatile by volume: < 1%
 Weight per gallon : 21 lbs.
 Specific gravity : 2.52 (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact : Inert, nuisance particulate dust.

Skin contact : Non-toxic.

Inhalation : Harmful if swallowed. Induce vomiting and call a physician.

Ingestion : This product may be irritating to the gastrointestinal tract if ingested.

Signs and symptoms : No specific hazard is known.

Aggravated medical conditions : Avoid using if pregnant or contemplating pregnancy.

Other health effects : Exposure may cause nervous system, kidney, or bone marrow damage, or harm to developing fetus.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact : Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact : Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and treat symptomatically. Seek medical attention.

Ingestion : Induce vomiting and call a physician.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point : 300°F

Extinguishing media : Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions : None known.

Unusual fire and explosion hazards : None known.

September 16, 1988 (page 3)

SECTION VII

REACTIVITY

Stability: StableHazardous polymerization: Will not occur.Conditions and materials to avoid: None known.Hazardous decomposition products: Carbon dioxide, carbon monoxide, and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation. Use window exhaust fan to remove vapors and assure adequate cross ventilation. For dusts and mists, use NIOSH-certified mask.Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.Waste disposal. Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

Not for use by children.

For further information, contact your local poison control center.

When using, do not eat, drink, or smoke.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.

MATERIAL SAFETY DATA SHEET

Date of Preparation: September 16, 1988

SECTION I

Manufacturer : Binney & Smith Company
 Address : P.O. Box 546
 Winfield, Kansas 67156

Telephone : 316-221-4200
 Emergency : 316-221-4200

Product Class: Artist Oil Paints
 Mfg. Code ID : Series 1144, 1147, 1199

- H M I S -

Health	: 4
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

*See Section VIII

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,
 4=extreme, 5=chronic)

433 - Flake Everwhite - Flake White

Trade Name LIQUITEX Artist Oil Colors

SECTION II-A

HAZARDOUS COMPONENTS

Lead pigments are listed as hazardous in Standard 29 CFR, 1910.1025.

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure</u> mm Hg
Lead Carbonate	7439-92-1	N/A

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>
Lead Pigments	50 mg/m ³	N/A

SECTION III

PHYSICAL DATA

Boiling point : not established > 300°F
 Evaporation rate : <1 (ether = 1)
 Vapor density : >1 (air = 1)

% Volatile by volume: < 1%
 Weight per gallon : 28 lbs.
 Specific gravity : 3.36, (H₂O = 1)

SECTION IV

HEALTH INFORMATION

Eye contact: Inert, nuisance particulate dust.

Skin contact: Non-toxic.

Inhalation: Do not spray apply. Avoid breathing dusts and mists. See Sections VIII & X.

Ingestion: Harmful if swallowed. Induce vomiting and call a physician.

Signs and symptoms: No specific hazard is known.

Aggravated medical conditions: Avoid using if pregnant or contemplating pregnancy.

Other health effects: Exposure may cause nervous system, kidney, or bone marrow damage, or harm to developing fetus.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

Eye contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention if any symptoms persist.

Skin contact: Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and treat symptomatically. Seek medical attention.

Ingestion: Induce vomiting and call a physician.

SECTION VI

FIRE AND EXPLOSION HAZARDS

Flammability classification - OSHA: CLASS IIIB
- DOT: not regulated

Flash point: >300°F

Extinguishing media: Use water fog, foam, dry chemical or carbon dioxide.

Special fire fighting procedures and precautions: None known.

Unusual fire and explosion hazards: None known.

SECTION VII

REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Conditions and materials to avoid: None known.

Hazardous decomposition products: Carbon dioxide, carbon monoxide, and unidentified (unknown) organic compounds may be formed during combustion.

SECTION VIII

EMPLOYEE PROTECTION

Respiratory protection: Use good ventilation. Use window exhaust fan to remove vapors and assure adequate cross ventilation. For dusts and mists, use NIOSH-certified mask.

Protective clothing: Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes.

Additional protective measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX

ENVIRONMENTAL PROTECTION

Spill or leak procedures: Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills - take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Waste disposal: Refer to latest EPA or State regulations regarding proper disposal.

SECTION X

ADDITIONAL PRECAUTIONS

Not for use by children.

For further information, contact your local poison control center.

When using, do not eat, drink, or smoke.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
LIQUITEX® Metallic Oil Paints
Section I (Copper; Gold; Silver)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Manufacturer's Name
BINNEY & SMITH INC.
Address (Number, Street, City, State, and ZIP Code)
1100 Church Lane
P. O. Box 431
Easton, PA 18044-0431

Emergency Telephone Number
215-253-6271
Telephone Number for Information
1-800-272-9652
Date Prepared
January 4, 1989
Signature of Preparer (optional)
Cherry E. Hudson

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Petroleum Distillate (gel)	None	250 ppm		16-23

Section III — Physical/Chemical Characteristics

Boiling Point	310-375°F.	Specific Gravity (H ₂ O = 1)	Not established
Vapor Pressure (mm Hg.)	N/A	Melting Point	Not established
Vapor Density (AIR = 1)	> 1	Evaporation Rate (Butyl Acetate = 1)	< 1
Solubility in Water NOT SOLUBLE			
Appearance and Odor VARIOUS COLORS - ODORLESS			

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) 103°F.	Flammable Limits Unknown	LEL Unknown	UEL Unknown
Extinguishing Media Foam, Co₂, Water			
Special Fire Fighting Procedures Self-contained breathing apparatus			
Unusual Fire and Explosion Hazards None			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid Heat, sparks, open flame, fire, and hot surfaces
	Stable	X	

Incompatibility (Materials to Avoid)

None known

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	No	Possible	Possible

Health Hazards (Acute and Chronic) Approved product of the Art & Craft Materials Institute, Inc. This product is approved in a program of toxicologic evaluation by a medical expert, subject to review by the Institute's Toxicologist Advisory Board to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	Not available	No

Non-carcinogenic

Signs and Symptoms of Exposure

None known

Medical Conditions

Generally Aggravated by Exposure None known

Emergency and First Aid Procedures

Eye-flush with copious amounts of water for at least 15 minutes; skin-wash with mild soap and water; ingestion - Do Not Induce Vomiting, call a physician immediately.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Recover free product. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product enters sewers or watercourses. Assure conformity with governmental regulations.

Waste Disposal Method

In accordance with local regulations - regulated as residual waste in the State of Pennsylvania.

Precautions to Be Taken in Handling and Storing

None

Other Precautions

None

Section VIII — Control Measures

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special	None
	Good local exhaust	Other	None
	Mechanical (General)		
	None required		

Protective Gloves

None required

Eye Protection

Not required

Other Protective Clothing or Equipment

None

Work/Hygiene Practices

Clean, safe work practices