



MATERIAL SAFETY DATA SHEET

Date of Preparation: March 30, 1990

15-1B

SECTION I

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

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

- H M I S -	
Health	: 1
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

\*See Section VIII

Product Class: Acrylic Artist Paint  
 Mfg. Code ID : 1002, 1008, 1016, 1032, 1036, 1045, 1047, 1051, 1053, 1075,  
 1088, 2002, 2008

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

112 - ACRA Red	316 - Phthalocyanine Blue	127 - Burnt Siena
114 - ACRA Violet	317 - Phthalocyanine Green	330 - Raw Siena
116 - Alizarine Crimson Hue	335 - Red Oxide	451 - Green Gold
186 - Dioxazine Purple (Violet)	380 - Ultramarine Blue	501 - Maroon
224 - Hooker's Green Hue	411 - Yellow Light, Hansa	561 - Turquoise Deep
242 - Indo Orange Red	412 - Yellow Medium, Azo	
244 - Ivory Black	414 - Yellow Orange, Azo	
276 - Mars Black	416 - Yellow Oxide	
292 - Naphthol Crimson	510 - Scarlet Red/Cadmium Red Light Hue	
294 - Naphthol Red Light	620 - Vivid Red Orange	
310 - Payne's Gray	730 - Turner's Yellow	
311 - Deep Brilliant Red	151 - Lacquer Red/Cad. Red Medium Hue	

Trade Name LIQUITEX Acrylic Artist Color

SECTION II-A

HAZARDOUS COMPONENTS

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure</u> mm Hg
None	N/A	N/A

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>
	N/A	N/A

SECTION III

PHYSICAL DATA

Boiling point	: not established	% Volatile by volume:	50 ± 10%
Evaporation rate	: < 1 (ether = 1)	Weight per gallon	: 9.0-12.0 lbs.
Vapor density	: > 1 (air = 1)	Specific gravity	: 1.08 - 1.44 (H <sub>2</sub> O = 1)

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**SECTION IV****HEALTH INFORMATION**

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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 D 4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards.

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**SECTION V****EMERGENCY AND FIRST AID PROCEDURES**

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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.

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**SECTION VI****FIRE AND EXPLOSION HAZARDS**

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

Flash point : > 212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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: March 30, 1990

14-1B

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200  
 Product Class: Acrylic Artist Paint  
 Mfg. Code ID : 1002, 1008, 1016, 1032, 1045, 1047, 1051, 1053

- 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)

170 - Cobalt Blue

Trade Name LIQUITEX Acrylic Artist Color

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:

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

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>
Cobalt dust (as Co)	.005 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>

SECTION III

PHYSICAL DATA

Boiling point : not established Evaporation rate : < 1 (ether = 1) Vapor density : > 1 (air = 1)	% Volatile by volume: 50 ± 10% Weight per gallon : 11 - 12 lbs. Specific gravity : 1.34 (H <sub>2</sub> O = 1)
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## 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.

## 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 : > 212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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: March 30, 1990

17-1B

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200

- H M I S -

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

\*See Section VIII & X

Product Class: Acrylic Artist Paint  
 Mfg. Code ID : 1002, 1008, 1016, 1032, 1045, 1047, 1051, 1053, 1075

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high,

4=extreme, 5 =chronic)

- 150 - Cadmium Orange
- 152 - Cadmium Red Light
- 154 - Cadmium Red Medium
- 157 - Cadmium Red Extra Deep

Trade Name LIQUITEX Acrylic Artist Color

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>Components</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 <sup>3</sup>	0.05 mg/m <sup>3</sup>

SECTION III

PHYSICAL DATA

Boiling point	: not established	% Volatile by volume:	50 ± 10%
Evaporation rate	: < 1 (ether = 1)	Weight per gallon	: 9.0-12.0 lbs.
Vapor density	: > 1 (air = 1)	Specific gravity	: 1.08-1.44 (H <sub>2</sub> O = 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 dysfunction.

## 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 : > 212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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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MATERIAL SAFETY DATA SHEET

Date of Preparation: March 30, 1990

18-1B

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200  
 Product Class: Acrylic Artist Paint  
 Mfg. Code ID : 1002, 1008, 1016, 1032, 1045, 1047, 1051, 1053, 1075, 2002

- 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)

- 128 - Burnt Umber
- 331 - Raw Umber
- 530 - Bronze Yellow

Trade Name LIQUITEX Acrylic Artist Color

SECTION II-A

HAZARDOUS COMPONENTS

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

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure</u> mm Hg
Raw and Burnt Umber pigments	12713-03-0	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

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

SECTION III

PHYSICAL DATA

Boiling point	: not established	% Volatile by volume:	50 ± 10%
Evaporation rate	: < 1 (ether = 1)	Weight per gallon	: 9.0 - 12.0 lbs.
Vapor density	: > 1 (air = 1)	Specific gravity	: 1.08 - 1.44 (H <sub>2</sub> O =

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**SECTION IV****HEALTH INFORMATION**

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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 D 4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazards

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**SECTION V****EMERGENCY AND FIRST AID PROCEDURES**

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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.

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**SECTION VI****FIRE AND EXPLOSION HAZARDS**

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Flammability classification - OSHA: CLASS III B  
- DOT: not regulated

Flash point : > 212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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: March 30, 1990

19-1B

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200  
 Product Class: Acrylic Artist Paint  
 Mfg. Code ID : 1002, 1008, 1016, 1032, 1045, 1047, 1051, 1053, 1075, 2002

- H M I S -	
Health	: 4
Flammability	: 0
Reactivity	: 0
Personal Protection	: *

\*See Section VIII & X

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

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

Trade Name LIQUITEX Acrylic Artist Color

SECTION II-A

HAZARDOUS COMPONENTS

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

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure</u> mm Hg
Cadmium Sulfide	1306-23-6	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 <sup>3</sup>	0.05 mg/m <sup>3</sup>

SECTION III

PHYSICAL DATA

Boiling point : not established	% Volatile by volume: 50 ± 10%
Evaporation rate : < 1 (ether = 1)	Weight per gallon : 9.0 - 12.0 lbs.
Vapor density : > 1 (air = 1)	Specific gravity : 1.08 - 1.44 (H <sub>2</sub> O = 1)

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**SECTION IV****HEALTH INFORMATION**

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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.

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**SECTION V****EMERGENCY AND FIRST AID PROCEDURES**

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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.

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**SECTION VI****FIRE AND EXPLOSION HAZARDS**

---

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

Flash point : > 212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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

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

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: March 30, 1990

20-1B

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200

- 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,

Product Class: Acrylic Artist Paint  
 Mfg. Code ID : 1002, 1008, 1016, 1032, 1036, 1045, 1047, 1051, 1053, 1075, 1088,  
 2002, 2008

300 - Deep Magenta	570 - Brilliant Blue	799 - Neutral Gray - Value 7
350 - Permanent Green Deep	590 - Brilliant Purple	810 - Light Portrait Pink
381 - Brilliant Blue Purple	599 - Neutral Gray - Value 5	830 - Brilliant Yellow
391 - Prism Violet	650 - Light Emerald Green	840 - Brilliant Yellow Green
399 - Neutral Gray - Value 3	660 - Bright Aqua Green	899 - Neutral Gray - Value 8
432 - Titanium White	680 - Light Blue Violet	436 - Parchment
434 - Unbleached Titanium	699 - Neutral Gray - Value 6	601 - Naples Yellow Hue
450 - Emerald Green	700 - Light Magenta	164 - Cerulean Blue
470 - Cerulean Blue Hue	720 - Brilliant Orange	166 - Chromium Oxide Green
499 - Neutral Gray - Value 4	740 - Vivid Lime Green	315 - Permanent Sap Green
500 - Medium Magenta	770 - Permanent Light Blue	398 - Viridian Hue
560 - Turquoise Green	790 - Permanent Light Violet	

Trade Name LIQUITEX Acrylic Artist Color

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	13463-67-7	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 <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable)	10 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable)
2. Amorphous Silica	80 mg/m <sup>3</sup> % silica	10 mg/m <sup>3</sup>

SECTION III

PHYSICAL DATA

Boiling point : not established  
 Evaporation rate : < 1 (ether = 1)  
 Vapor density : > 1 (air = 1)  
 % Volatile by volume: 50 ± 10%  
 Weight per gallon : 9.0 - 12.0 lbs.  
 Specific gravity : 1.08 - 1.44 (H<sub>2</sub>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 D 4236 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 : > 212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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: March 30, 1990

85-1

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200  
 Product Class: Acrylic Artist Paint  
 Mfg. Code ID : 1002, 1008, 1016, 1032, 1045, 1051, 1053

- 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)

117 - ACRA® Gold

Trade Name LIQUITEX Acrylic Artist Color

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:

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure</u> mm Hg
Basic Nickel Carbonate	12607-70-4	Zero at room temperature

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>
Basic Nickel Carbonate (as Ni)	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

SECTION III

PHYSICAL DATA

Boiling point : not established Evaporation rate : < 1 (ether = 1) Vapor density : > 1 (air = 1)	% Volatile by volume: 50 ± 10% Weight per gallon : 9.00-9.50 lbs. Specific gravity : 1.08-1.14 (H <sub>2</sub> O=1)
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**SECTION IV****HEALTH INFORMATION**

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Eye contact

Eye irritant.

Skin contact

May cause dermatitis.

Inhalation

Nuisance particulate dust. See Section X.

Ingestion

May be harmful if swallowed. Contains soluble nickel. Exposure may cause damage to the testes 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

Do not eat, drink, or smoke when using. Wash hands immediately after use. For further information, contact your poison control center. Not for use by children.

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**SECTION V****EMERGENCY AND FIRST AID PROCEDURES**

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Eye contact

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

Skin contact

Wash hands immediately after use. 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 III B  
- DOT: not regulated

Flash point : >212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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: March 30, 1990

86-1

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200

- H M I S -

Health	:
Flammability	:
Reactivity	:
Personal Protection	:

Product Class: Acrylic Artist Paint  
 Mfg. Code ID : Series 1002, 1008, 1016, 1032, 1045, 1051, 1053

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

318 - Prussian Blue

Trade Name LIQUITEX Acrylic Artist Paint

SECTION II-A

HAZARDOUS COMPONENTS

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

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure</u> mm Hg
Ferric Hexacyanoferrate	14038-43-8	Zero at room temperature
Nickel Compound*	Trade secret of manufacturer	

\*Less than 1%

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>
Ferric Hexacyanoferrate	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Nickel Compound	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

SECTION III

PHYSICAL DATA

Boiling point	: not established	% Volatile by volume:	50 ± 10%
Evaporation rate	: < 1 (ether=1)	Weight per gallon	: 9.34-9.44 lbs.
Vapor density	: > 1 (air=1)	Specific gravity	: 1.1 (H <sub>2</sub> O=1)

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**SECTION IV****HEALTH INFORMATION**

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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 conforms to ASTM D 4236 Standard Practice for Labeling Art Materials for Chronic Adverse Health Hazard

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**SECTION V****EMERGENCY AND FIRST AID PROCEDURES**

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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 : > 212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.



## SECTION VII

## REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur

Conditions and materials to avoid

None known

Hazardous decomposition products

Carbon dioxide, carbon monoxide, hydrogen cyanide, 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

87-1

Date of Preparation: March 30, 1990

SECTION I

Manufacturer : Binney & Smith Company  
 Address : P.O. Box 546  
 Winfield, Kansas 67156  
 Telephone : 316-221-4200  
 Emergency : 316-221-4200  
 Product Class: Acrylic Artist Paint  
 Mfg. Code ID : Series 1045, 1051

- H M I S -

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

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

171 - Cobalt Green

Trade Name LIQUITEX Acrylic Artist Color

SECTION II-A HAZARDOUS COMPONENTS

Cobalt Green paint contains the following mixture listed in OSHA Standard 29 CFR Section 1910.1000 for air contaminants:

<u>Component</u>	<u>CAS #</u>	<u>Vapor Pressure mm Hg</u>
Zinc Cobalt Chrominate	68187-11-1	Zero at room temperature
Zinc Cobalt Chromite	68187-49-5	Zero at room temperature

SECTION II-B OCCUPATIONAL EXPOSURE LIMITS

	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>
Cobalt Dust (as Co)	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Chromium III compounds (as Cr)	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Zinc compounds (as Zn)	None	None

SECTION III PHYSICAL DATA

Boiling point	: not established	% Volatile by volume:	50 ± 10%
Evaporation rate	: <1 (ether=1)	Weight per gallon	: 11 lbs.
Vapor density	: >1 (air=1)	Specific gravity	: 1.3 (H <sub>2</sub> O=1)

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**SECTION IV****HEALTH INFORMATION**

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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 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.

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**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.

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**SECTION VI****FIRE AND EXPLOSION HAZARDS**

---

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

Flash point : >212°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

Product as supplied will splatter and boil above 212°F. Product when dry may decompose and ignite above 400°F.

## 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.