



R&F Handmade Paints, Inc.
84 Ten Broeck Avenue
Kingston, NY, U.S.A. 12401
Telephone: (845) 331-3112
Fax: (845) 331-3242

Encaustic Paints

MSDS Preparation Date (mm/dd/yyyy): 08/23/2012

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MATERIAL SAFETY DATA SHEET**SECTION 1 - IDENTIFICATION**

Product identifier : **Encaustic Paints**

Product Code(s) : Cadmium Orange; Cadmium Reds; Cadmium Yellows; Green Gold Indian Yellow ; Chromium Oxide Green; Viridian; Cerulean Blue; Cobalt Blue; Cobalt Violet Deep; Cobalt Violet Light; Cobalt Yellow

Product Use : Artist paint

Chemical Family : Mixture of: Beeswax; Resin; Pigment

Supplier's name and address: **R&F Handmade Paints, Inc.**
84 Ten Broeck Avenue
Kingston, New York, U.S.A.
12401
Email: info@rfpaints.com

Manufacturer's name and address:
Refer to Supplier

Information Telephone # : (845) 331-3112 (Monday - Friday, 9:00 am - 5:00 pm, EST; Saturday, 10:00 am - 5:00 pm, EST)

24 Hr. Emergency Tel # : Not available.

SECTION 2 - HAZARDS IDENTIFICATION

Classification : OSHA:
Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows / Cerulean Blue / Cobalt Blue / Cobalt Violet Deep / Cobalt Yellow / Cobalt Violet Light:
This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).
Hazardous classification:
Chronic Health Hazard.

All other Encaustic Paints:
This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).

WHMIS information:
Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows / Cerulean Blue / Cobalt Blue / Cobalt Violet Deep / Cobalt Yellow / Cobalt Violet Light:
This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material)

All other Encaustic Paints:
This product is not a WHMIS controlled product in Canada. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).



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Emergency Overview

: solid (Wax like) - Various colours. Wax-like odour.

Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows / Cerulean Blue / Cobalt Blue / Cobalt Violet Deep / Cobalt Yellow / Cobalt Violet Light :

Warning!

May be mildly irritating to skin, eyes and respiratory system. The molten product can cause serious burns. Possible cancer hazard - contains material which may cause cancer.

All other Encaustic Paints:

Caution! May be mildly irritating to skin, eyes and respiratory system. The molten product can cause serious burns.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : May cause mild respiratory irritation at higher temperatures.

Skin : Direct skin contact may result in little or no irritation. The molten product can cause serious burns.

Eyes : May cause mild eye irritation.

Ingestion : May cause irritation of mouth, throat, and stomach. May result in nausea and vomiting.

Effects of long-term (chronic) exposure

: Prolonged or repeated overexposure to components of this product may cause lung and Kidney disease.

Carcinogenic status : Possible cancer hazard. See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt. %
Encaustic Paints - Cadmium Orange contains the following component:		
Cadmium sulfoselenide orange	12656-57-4	10.00 - 25.00
Encaustic Paints - Cadmium Reds contain the following component:		
Cadmium sulfoselenide red	58339-34-7	10.00 - 25.00
Encaustic Paints - Cadmium Yellows contain the following component:		
Cadmium zinc sulfide yellow	8048-07-5	10.00 - 25.00
Encaustic Paints - Cerulean Blue contains the following component:		
Spinels, cobalt tin grey	68187-05-3	15.00 - 40.00
Encaustic Paints - Cobalt Blue contains the following component:		
Cobalt aluminate blue spinel	1345-16-0	15.00 - 40.00
Encaustic Paints - Cobalt Violet Deep contains the following component:		
Cobalt(II) phosphate	13455-36-2	15.00 - 40.00
Encaustic Paints - Cobalt Yellow contains the following component:		
Tripotassium hexanitritocobaltate	13782-01-9	15.00 - 40.00



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Encaustic Paints - Indian Yellow also contains the following component:		
C.I. Pigment Yellow 83	5567-15-7	3.00 - 7.00
Encaustic Paints - Viridian contains the following component:		
Chromium (III) oxide, hydrated	12001-99-9	10.00 - 25.00
Encaustic Paints: Chromium Oxide Green contains the following component:		
Chromium (III) oxide	1308-38-9	10.00 - 25.00
Encaustic Paints: Cobalt Violet Light contains the following component:		
Ammonium cobalt phosphate	14590-13-7	15.00 - 40.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
- Skin contact** : Cool skin rapidly with cold water after contact with molten material. Wash affected areas with soap and water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before reuse.
- Eye contact** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms develop, seek medical attention.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Not flammable under normal conditions of handling. May produce a floating fire hazard.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Not flammable.

Oxidizing properties

- : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products

- : Carbon oxides; Nitrogen oxides; Sulphur oxides; Metal oxides.

NFPA Rating

- 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
Health: 1 Flammability: 1 Instability: 0 Special Hazards: None.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Do not allow material to contaminate ground water system.



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Spill response/cleanup : Ventilate area of release. Remove all sources of ignition. Pick up and transfer to properly labelled containers. If product is heated and molten, allow product to cool off before cleaning up. Scrape up product and place it into a container for disposal. Pick up and transfer to properly labelled containers. Notify the appropriate authorities as required.

Prohibited materials : None known or reported by the manufacturer.

Special spill response procedures : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None reportable.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures : Use in a well-ventilated area. Wear suitable protective equipment during handling. For personal protection see section 8. Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Wash thoroughly after handling.

Storage requirements : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Keep out of the reach of children.

Incompatible materials : Strong oxidizing agents and acids.

Special packaging materials : Always keep in containers made of the same materials as the supply container.



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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits			
Ingredients	ACGIH TLV		OSHA PEL
	TWA	STEL	PEL STEL
Encaustic Paints - Cadmium Orange contains the following component:			
Cadmium sulfoselenide orange	0.01 mg/m ³ (inhalable); 0.002 mg/m ³ (respirable) (as Cd)	N/Av	0.2 mg/m ³ (dust); 0.1 mg/m ³ (fume) (as Cd) 0.6 mg/m ³ (dust); 0.3 mg/m ³ (fume) (as Cd)
Encaustic Paints - Cadmium Reds contain the following component:			
Cadmium sulfoselenide red	0.01 mg/m ³ (inhalable); 0.002 mg/m ³ (respirable) (as Cd)	N/Av	0.2 mg/m ³ (dust); 0.1 mg/m ³ (fume) (as Cd) 0.6 mg/m ³ (dust); 0.3 mg/m ³ (fume) (as Cd)
Encaustic Paints - Cadmium Yellows contain the following component:			
Cadmium zinc sulfide yellow	0.01 mg/m ³ (inhalable); 0.002 mg/m ³ (respirable) (as Cd)	N/Av	0.2 mg/m ³ (dust); 0.1 mg/m ³ (fume) (as Cd) 0.6 mg/m ³ (dust); 0.3 mg/m ³ (fume) (as Cd)
Encaustic Paints - Cerulean Blue contains the following component:			
Spinels, cobalt tin grey	0.02 mg/m ³ (as 'Cobalt')	N/Av	0.1 mg/m ³ (as 'Cobalt') N/Av
Encaustic Paints - Cobalt Blue contains the following component:			
Cobalt aluminate blue spinel	0.02 mg/m ³ (as 'Cobalt')	N/Av	0.1 mg/m ³ (as 'Cobalt') N/Av
Encaustic Paints - Cobalt Violet Deep contains the following component:			
Cobalt(II) phosphate	0.02 mg/m ³ (as 'Cobalt')	N/Av	0.1 mg/m ³ (as 'Cobalt') N/Av
Encaustic Paints - Cobalt Yellow contains the following component:			
Tripotassium hexanitrocobaltate	0.02 mg/m ³ (as 'Cobalt')	N/Av	0.1 mg/m ³ (as 'Cobalt') N/Av
Encaustic Paints - Indian Yellow also contains the following component:			
C.I. Pigment Yellow 83	N/Av	N/Av	N/Av N/Av
Encaustic Paints - Viridian contains the following component:			
Chromium (III) oxide, hydrated	0.5 mg/m ³ (as 'metal & Cr III compounds')	N/Av	0.5 mg/m ³ (as 'Cr III compounds') N/Av
Encaustic Paints: Chromium Oxide Green contains the following component:			
Chromium (III) oxide	0.5 mg/m ³ (as 'metal & Cr III compounds')	N/Av	0.5 mg/m ³ (as 'Cr III compounds') N/Av
Encaustic Paints: Cobalt Violet Light contains the following component:			
Ammonium cobalt phosphate	0.02 mg/m ³ (as 'Cobalt')	N/Av	0.1 mg/m ³ (as 'Cobalt') N/Av

Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.



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- Skin protection** : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
- Eye / face protection** : Safety goggles or glasses as appropriate for the job.
- Other protective equipment** : Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid (Wax like)	Appearance	: Various colours.
Odour	: Wax like	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: > 260°C (> 500°F)	Specific gravity	: 0.927 - 0.970
Melting/Freezing point	: 72°C (161.6°F) (approximately)	Coefficient of water/oil distribution	: N/Av
Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av Does not form vapours at normal room temperatures.	Solubility in water	: insoluble
Vapour density (Air = 1)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: Negligible
Flash point	: > 240°C (> 464°F)	Auto-ignition temperature	: N/Av
Flash point Method	: open cup	Upper flammable limit (% by vol.)	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Flashback observed	: N/Av
Flame Projection Length	: N/Av		
Viscosity	: N/Av		
Absolute pressure of container	: N/Av		

Section 10: Stability And Reactivity

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Keep away from extreme heat and flame.
- Materials To Avoid And Incompatibility** : Strong oxidizing agents and acids.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

- Target organs** : Eyes, skin, respiratory system, digestive system. Kidneys.
- Routes of exposure** : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES



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Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u>		<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>	
Encaustic Paints - Cadmium Orange contains the following component: Cadmium sulfoselenide orange	N/Av	> 5110 mg/kg	N/Av	
Encaustic Paints - Cadmium Reds contain the following component: Cadmium sulfoselenide red	> 140 mg/m ³ /2H	> 5110 mg/kg	N/Av	
Encaustic Paints - Cadmium Yellows contain the following component: Cadmium zinc sulfide yellow	N/Av	> 5000 mg/kg	N/Av	
Encaustic Paints - Cerulean Blue contains the following component: Spinels, cobalt tin grey	N/Av	> 5000 mg/kg	N/Av	
Encaustic Paints - Cobalt Blue contains the following component: Cobalt aluminate blue spinel	N/Av	> 5000 mg/kg	N/Av	
Encaustic Paints - Cobalt Violet Deep contains the following component: Cobalt(II) phosphate	N/Av	> 1500 mg/kg (supplier)	N/Av	
Encaustic Paints - Cobalt Yellow contains the following component: Tripotassium hexanitritocobaltate	N/Av	N/Av	N/Av	
Encaustic Paints - Indian Yellow also contains the following component: C.I. Pigment Yellow 83	> 4448 mg/m ³	> 5000 mg/kg	> 3000 mg/kg	
Encaustic Paints - Viridian contains the following component: Chromium (III) oxide, hydrated	N/Av	N/Av	N/Av	
Encaustic Paints: Chromium Oxide Green contains the following component: Chromium (III) oxide	> 5.41 mg/L	> 15,000 mg/kg	N/Av	
Encaustic Paints: Cobalt Violet Light contains the following component: Ammonium cobalt phosphate	N/Av	> 1470 mg/kg	N/Av	

Carcinogenic status

: Cadmium Orange; Cadmium Reds; Cadmium Yellows:
Contains: Cadmium compounds. Cadmium and Cadmium compounds are classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2), the NTP (Known human carcinogen) and OSHA.

Cerulean Blue; Cobalt Blue; Cobalt Violet Deep; Cobalt Violet Light; Cobalt Yellow:
Contains cobalt compounds. Cobalt compounds are classified as possibly carcinogenic to humans by IARC (Group 2B).

All other Encaustic Paints: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

At temperatures above 200°C, Encaustic Paints - Indian Yellow may release 3,3'-dichlorobenzidine (CAS No. 91-94-1). 3,3'-dichlorobenzidine may cause cancer.

Reproductive effects

Teratogenicity

Mutagenicity

: Not expected to cause reproductive effects.
: Not expected to be a teratogen.
: Not expected to be mutagenic in humans.

Epidemiology

: Not available.



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- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- At temperatures above 200°C, Encaustic Paints - Indian Yellow may release 3,3'-dichlorobenzidine (CAS No. 91-94-1). 3,3'-dichlorobenzidine may cause an allergic skin reaction.
- Synergistic materials** : Not available.
- Irritancy** : Mild.
- other important hazards** : Prolonged or repeated overexposure to components of this product may cause lung and Kidney disease.
- Conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : No additional information.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7.
- Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	None	Not regulated.	Not regulated	none	
49CFR/DOT Additional Information	None.				
TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

US CERCLA Reportable quantity (RQ): None reportable.



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SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes:

Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows / Cerulean Blue / Cobalt Blue / Cobalt Violet Deep / Cobalt Yellow / Cobalt Violet Light : Chronic Health Hazard.

All other Encaustic Paints: None.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65:

Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows:

This product contains a chemical known to the State of California to cause cancer. This product contains: Cadmium compounds.

All other Encaustic Paints:

To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State "Right to Know" Lists:

Encaustic Paints - Chromium Oxide Green: The following chemicals are specifically listed by individual States: Chromium (III) oxide (MA, NJ).

All other Encaustic Paints: None of the components of this product are specifically listed on any State 'Right to Know' lists.

International Information:

Canadian Environmental Protection Act (CEPA): The following ingredient(s) is listed on the NDSL: Ammonium cobalt phosphate. All other ingredients are listed on the Domestic Substances List.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
Health: *1 *Flammability:* 1 *Reactivity:* 0

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
MA: Massachusetts
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable



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N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TPQ: Threshold Planning Quantity
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2012.
2. International Agency for Research on Cancer Monographs, searched 2012.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2012 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2006 version.
6. California Proposition 65 List - March 16, 2012 version.

<p><u>Prepared for:</u> R&F Handmade Paints, Inc. 84 Ten Broeck Avenue Kingston, NY, U.S.A. 12401 Telephone: 001-845-331-3112 Website: http://www.rfpaints.com/ Please direct all enquiries to R&F Handmade Paints.</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

DISCLAIMER OF LIABILITY

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc using information provided by / obtained from R&F Handmade Paints, Inc. and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and R&F Handmade Paints, Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc and R&F Handmade Paints, Inc.

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