



R&F Handmade Paints, Inc.
84 Ten Broeck Avenue
Kingston, NY, U.S.A. 12401
Telephone: 001-845-331-3112
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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.

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

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

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.

Relevant identified uses of the substance or mixture and uses advised against

: Artist paint.
Use pattern: Consumers/Retail products.

Details of the supplier of the safety data sheet:

R&F Handmade Paints, Inc.

84 Ten Broeck Avenue
Kingston, New York, U.S.A.
12401

Email: info@rfpaints.com

Refer to Section 16 for a local distributor.

Telephone : 001-845-206-8088

Emergency Telephone Number

: Not available.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Solid (Wax like). Various colours. Wax-like odour.

Most important hazards:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This preparation is not classified as dangerous according to Directive 1999/45/EC.

Label elements

EUH210 - Safety data sheet available on request.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. According to present data no labelling is required according to Regulation (EC) No. 1272/2008.

Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to skin, eyes and respiratory system. The molten product can cause serious burns.

Environmental precautions: Avoid release to the environment.

PBT assessment: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixtures

Chemical nature: Mixture - Beeswax; Resin; Pigment.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	EU Classification	CLP Classification
Encaustic Paints - Cadmium Orange contains the following component:					
Cadmium sulfoselenide orange	12656-57-4	235-758-3	10.0 - 25.0	None assigned.	None assigned.
Encaustic Paints - Cadmium Reds contain the following component:					
Cadmium sulfoselenide red	58339-34-7	261-218-1	10.0 - 25.0	not hazardous (Supplier)	not hazardous (Supplier)
Encaustic Paints - Cadmium Yellows contain the following component:					
Cadmium zinc sulfide yellow	8048-07-5	232-466-8	10.0 - 25.0	not hazardous (Supplier)	not hazardous (supplier)
Encaustic Paints - Cerulean Blue contains the following component:					
Spinels, cobalt tin grey	68187-05-3	269-066-8	15.0 - 40.0	None assigned. Substances for which there are Community workplace exposure limits.	Carc.2; H351
Encaustic Paints - Cobalt Blue contains the following component:					
Cobalt aluminate blue spinel	1345-16-0	310-193-6	15.0 - 40.0	None assigned. Substances for which there are Community workplace exposure limits.	Carc.2; H351
Encaustic Paints - Cobalt Violet Deep contains the following component:					
tricobalt bis(orthophosphate)	13455-36-2	236-655-6	15.0 - 40.0	Xn - Harmful; R22 (Supplier)	Acute Tox. 4; H302 Carc.2; H351 (Supplier)
Encaustic Paints - Cobalt Yellow contains the following component:					
Tripotassium hexanitritocobaltate	13782-01-9	237-435-2	15.0 - 40.0	None assigned. Substances for which there are Community workplace exposure limits.	Carc.2; H351

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Encaustic Paints - Viridian contains the following component:					
Chromium (III) oxide, hydrated	12001-99-9	None for the hydrated form. The anhydrous form has the following EINECS number: 215-160-9	10.0 - 25.0	None assigned. Substances for which there are Community workplace exposure limits.	None assigned. Substances for which there are Community workplace exposure limits.
Encaustic Paints: Chromium Oxide Green contains the following component:					
Chromium (III) oxide	1308-38-9	215-160-9	10.0 - 25.0	None assigned. Substances for which there are Community workplace exposure limits.	None assigned. Substances for which there are Community workplace exposure limits.
Encaustic Paints: Cobalt Violet Light contains the following component:					
Ammonium cobalt phosphate	14590-13-7	238-633-1	15.0 - 40.0	Xn - Harmful; R22 (self classified)	Acute Tox. 4; H302 Carc.2; H351 (self classified)

For the full text of the H and R phrases mentioned in this Section, see Section 2 or 16.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures	
Ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	: Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. When symptoms persist or in all cases of doubt seek medical advice.
Skin contact	: Cool skin rapidly with cold water after contact with molten material. For skin contact, wash with soap and water while removing contaminated clothing. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before reuse.
Eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Most important symptoms and effects, both acute and delayed	
: May be mildly irritating to skin, eyes and respiratory system. The molten product can cause serious burns.	
Indication of any immediate medical attention and special treatment needed	
: Treat symptomatically.	

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from the substance or mixture	
: Not flammable under normal conditions of use. The product is insoluble and floats on water. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx); Sulphur oxides; Metal oxides.	

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Advice for firefighters

Protective equipment for fire-fighters

- : Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ventilate the area. Prevent further leakage or spillage if safe to do so.

Environmental precautions

- : Do not allow material to contaminate ground water system.

Methods and material for containment and cleaning up

- : Eliminate all ignition sources if safe to do so. 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. Keep in properly labelled containers. Contact the proper local authorities.

Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use only in well-ventilated areas. Wear suitable protective equipment. Wear protective gloves. For personal protection see section 8. Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from acids and other incompatibles. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

- : Artist paint.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Exposure Limits:			
Chemical Name	Exposure Limits	Type	Notes
Ammonium cobalt phosphate			
	0.05 mg/m³ (TWA)	Poland (OEL)	(as Co) (dust and fume)
	0.2 mg/m³ (STEL)		
	0.02 mg/m³ (TWA)	Spain (OEL)	(as Co)
	0.1 mg/m³ (TWA)	The United Kingdom (WELs)	(as Co)
	0.3 mg/m³ (STEL)		

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Cadmium sulfoselenide orange	0.05 mg/m³ (TWA)	France (OEL)	(as Cd)
	0.01 mg/m³ (TWA)	Poland (OEL)	(as Cd)
	0.01 mg/m³ (inhalable); 0.002 mg/m³ (respirable dust) (TWA)	Spain (OEL)	(as Cd)
	0.025 mg/m³ (TWA)	The United Kingdom (WELs)	(as Cd)
	0.075 mg/m³ (STEL)		
Cadmium sulfoselenide red	0.05 mg/m³ (TWA)	France (OEL)	(as Cd)
	0.01 mg/m³ (TWA)	Poland (OEL)	(as Cd)
	0.01 mg/m³ (inhalable); 0.002 mg/m³ (respirable dust) (TWA)	Spain (OEL)	(as Cd)
	0.025 mg/m³ (TWA)	The United Kingdom (WELs)	(as Cd)
	0.075 mg/m³ (STEL)		
Cadmium zinc sulfide yellow	0.05 mg/m³ (TWA)	France (OEL)	(as Cd)
	0.01 mg/m³ (TWA)	Poland (OEL)	(as Cd)
	0.01 mg/m³ (TWA)	Spain (OEL)	(as Cd)
	0.025 mg/m³ (TWA)	The United Kingdom (WELs)	(as Cd)
Chromium (III) oxide	0.02 mg/m³ (TWA)	Estonia (OEL)	(as Cr)
	2 mg/m³ (TWA)	France (OEL)	(as 'Chromium III insoluble inorganic compounds')
	0.5 mg/m³ (TWA)	Italy (OEL)	(as 'Chromium III insoluble inorganic compounds')
	1 mg/m³ (TWA)	Latvia (OEL)	(as Cr)
	2 mg/m³ (TWA)	Spain (OEL)	(as 'Chromium III insoluble inorganic compounds')
Chromium (III) oxide, hydrated	0.02 mg/m³ (TWA)	Estonia (OEL)	(as Cr)
	2 mg/m³ (TWA)	France (OEL)	(as 'Chromium III insoluble inorganic compounds')
	0.5 mg/m³ (TWA)	Italy (OEL)	(as 'Chromium III insoluble inorganic compounds')
	1 mg/m³ (TWA)	Latvia (OEL)	(as Cr)

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	2 mg/m³ (TWA)	Spain (OEL)	(as 'Chromium III insoluble inorganic compounds')
Cobalt aluminate blue spinel	0.05 mg/m³ (TWA)	Poland (OEL)	(as Co)
	0.2 mg/m³ (STEL)		
	0.2 mg/m³ (TWA)	Spain (OEL)	(as Co)
	0.1 mg/m³ (TWA)	The United Kingdom (WELs)	(as Co)
Spinels, cobalt tin grey	0.3 mg/m³ (STEL)		
	0.05 mg/m³ (TWA)	Poland (OEL)	(as Co) (dust and fume)
	0.2 mg/m³ (STEL)		
	0.02 mg/m³ (TWA)	Spain (OEL)	(as Co)
tricobalt bis(orthophosphate)	0.1 mg/m³ (TWA)	The United Kingdom (WELs)	(as Co)
	0.3 mg/m³ (STEL)		
	0.05 mg/m³ (TWA)	Poland (OEL)	(as Co) (dust and fume)
	0.2 mg/m³ (STEL)		
Tripotassium hexanitritocobaltate	0.02 mg/m³ (TWA)	Spain (OEL)	(as Co)
	0.1 mg/m³ (TWA)	The United Kingdom (WELs)	(as Co)
	0.3 mg/m³ (STEL)		
	0.05 mg/m³ (TWA)	Poland (OEL)	(as Co)
	0.2 mg/m³ (STEL)		
	0.02 mg/m³ (TWA)	Spain (OEL)	(as Co)
	0.1 mg/m³ (TWA)	The United Kingdom (WELs)	(as Co)
	0.3 mg/m³ (STEL)		

Exposure controls

Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

: not required under normal use. If airborne concentrations are above the permissible exposure limits or are not known, respiratory protection may be required. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. The type of respiratory protection will depend on the conditions of use (see also EN 149).

Skin protection

: Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection

: Wear as appropriate: Safety glasses with side-shields; Tightly fitting safety goggles. See also EN 166.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location.

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General hygiene considerations

- : Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- | | |
|--|--|
| Appearance | : solid (Wax like) - Various colours. |
| Odour | : Wax like |
| Odour threshold | : No information available. |
| pH | : Not applicable. |
| Flash point | : > 240°C |
| Flashpoint (Method) | : open cup |
| Lower flammable limit (% by vol.) | : No information available. |
| Upper flammable limit (% by vol.) | : No information available. |
| Flammability (solid, gas) | : Not considered flammable. |
| Auto-ignition temperature | : No information available. |
| Decomposition temperature | : No information available. |
| Oxidizing properties | : None known. |
| Explosive properties | : Not explosive |
| Initial boiling point and boiling range | |
| | : > 260°C |
| Melting/Freezing point | : 72°C (approximately) |
| Relative density | : 0.927 - 0.970 |
| Solubility in water | : insoluble |
| Other solubility(ies) | : No information available. |
| Vapour pressure | : Not applicable. Does not form vapours at normal room temperatures. |
| Vapour density | : Not applicable. |
| Partition coefficient: n-octanol/water | |
| | : No information available. |
| Viscosity | : Not applicable. |
| Evaporation rate (BuAe = 1) | : No information available. |
| <u>Other Information</u> | |
| Volatiles (% by weight) | : negligible |
| Volatile organic Compounds (VOC's) | : Not applicable. |
| Other physical/chemical comments | |
| | : No additional information. |

SECTION 10. STABILITY AND REACTIVITY

- | | |
|---|--|
| Reactivity | : Not normally reactive. |
| Chemical stability | : Stable under normal conditions. Hazardous polymerisation does not occur. |
| Possibility of hazardous reactions | : None known. |

Encaustic Paints

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- Conditions to avoid

: Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Extreme heat and flame, wet or humid conditions
- Incompatible materials

: Strong oxidizing agents; Acids.
- Hazardous decomposition products

: In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx); Sulphur oxides; metal oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological effects:

- Acute toxicity

: According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Encaustic Paints - Cobalt Violet Deep contains Tricobalt bis(orthophosphate). The supplier of this substance lists an LD50 oral rat value of > 1500 mg/kg. With no upper limit on this value, a worst case scenario is assumed that the substance is classified in the following category: Acute tox. 4; H302 (LD50 oral of > 300 mg/kg; ≤ 2000 mg/kg). The calculated ATE for the mixture, was found to be: 6625 mg/kg.

Encaustic Paints - Cobalt Violet Light contains Ammonium cobalt phosphate. The data available for this substance lists an LD50 oral rat value of > 1470 mg/kg. With no upper limit on this value, a worst case scenario is assumed that the substance is classified in the following category: Acute tox. 4; H302 (LD50 oral of > 300 mg/kg; ≤ 2000 mg/kg). The calculated ATE for the mixture, was found to be: 6616 mg/kg.
- Skin corrosion/irritation

: According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.
- Serious eye damage/irritation

: According to the classification criteria of the European Union, this product is not considered as being a corrosive material.
- Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.

At temperatures above 200°C, Encaustic Paints - Indian Yellow may release 3,3'-dichlorobenzidine (EC No. 202-109-0). 3,3'-dichlorobenzidine may cause an allergic skin reaction.
- Germ cell mutagenicity

: Contains no ingredient listed as a mutagen.
- Carcinogenicity

: Not classifiable as a human carcinogen.

At temperatures above 200°C, Encaustic Paints - Indian Yellow may release 3,3'-dichlorobenzidine (EC No. 202-109-0). 3,3'-dichlorobenzidine may cause cancer.

Encaustic Paints - Cobalt Violet Deep contains Tricobalt bis(orthophosphate). Encaustic Paints - Cobalt Violet Light contains Ammonium cobalt phosphate. Encaustic Paints - Cerulean Blue contains Spinels, cobalt tin grey. Encaustic Paints - Cobalt Blue contains Cobalt aluminate blue spinel. Encaustic Paints - Cobalt Yellow contains Tripotassium hexanitritocobaltate. These substances may be classified as Carc. 2; H351 due to their classifications according to IARC (Possibly carcinogenic to humans - IARC Group 2B - 'Cobalt and cobalt compound'). However, these classifications are applicable to a 'group' designation, and these specific substances are not specifically listed in the IARC Monographs. The IARC designation applies to Cobalt compounds in dust form. The physical form of these mixtures and the very limited data on the Cobalt compounds that are present, therefore mean that data are insufficient for classification.

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Reproductive toxicity

: Contains no ingredient listed as toxic to reproduction.

STOT-single exposure

: According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure

: According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard

: According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Toxicological data

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

	LC ₅₀ (4hr)	LD ₅₀	
<u>Chemical name</u>	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Encaustic Paints - Cadmium Orange contains the following component:			
Cadmium sulfoselenide orange	No information available.	> 5110 mg/kg	No information available.
Encaustic Paints - Cadmium Reds contain the following component:			
Cadmium sulfoselenide red	> 140 mg/m ³ /2H	> 5110 mg/kg	No information available.
Encaustic Paints - Cadmium Yellows contain the following component:			
Cadmium zinc sulfide yellow	No information available.	> 5000 mg/kg	No information available.
Encaustic Paints - Cerulean Blue contains the following component:			
Spinels, cobalt tin grey	No information available.	> 5000 mg/kg	No information available.
Encaustic Paints - Cobalt Blue contains the following component:			
Cobalt aluminate blue spinel	No information available.	> 5000 mg/kg	No information available.
Encaustic Paints - Cobalt Violet Deep contains the following component:			
tricobalt bis(orthophosphate)	No information available.	> 1500 mg/kg (supplier)	No information available.
Encaustic Paints - Cobalt Yellow contains the following component:			
Tripotassium hexanitritocobaltate	No information available.	No information available.	No information available.
Encaustic Paints - Viridian contains the following component:			
Chromium (III) oxide, hydrated	No information available.	No information available.	No information available.
Encaustic Paints: Chromium Oxide Green contains the following component:			
Chromium (III) oxide	> 5.41 mg/L	> 15,000 mg/kg	No information available.
Encaustic Paints: Cobalt Violet Light contains the following component:			
Ammonium cobalt phosphate	No information available.	> 1470 mg/kg	No information available.

Routes of exposure

: Inhalation; Eye contact; Skin contact; Ingestion.

Effects of acute exposure

: Inhalation: May cause mild respiratory irritation at higher temperatures.

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

Eye contact: May cause mild eye irritation.

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

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Potential Chronic Health Effects

: None known or reported by the manufacturer.

Other important hazards

: None known or reported by the manufacturer.

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.

Persistence and degradability

: The product itself has not been tested.

Bioaccumulation potential

: The product itself has not been tested.

Mobility in soil

: The product itself has not been tested.

Results of PBT and vPvB assessment

: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Other Adverse Environmental effects

: No data is available on the product itself.

Water contaminating class (Germany)

: Green Gold: not water endangering (self classified)
Indian Yellow : 1 (self classified)
Cadmium Orange: 2 (self classified)
Cadmium Reds: 1 (self classified)
Cadmium Yellows: 1 (self classified)
Chromium Oxide Green: not water endangering (self classified)
Viridian: not water endangering (self classified)
Cerulean Blue: not water endangering (self classified)
Cobalt Blue: not water endangering (self classified)
Cobalt Violet Deep: 1 (self classified)
Cobalt Violet Light: 1 (self classified)
Cobalt Yellow: 1 (self classified)

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal

: Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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SECTION 14. TRANSPORTATION INFORMATION					
Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ADR/RID	None	not regulated	Not regulated	none	
EU ADR/RID Classification Code	Not applicable.				
EU ADR / RID Hazard Identification Number	Not applicable.				
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
ICAO/IATA	None	Not regulated.	Not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None	Not regulated.	Not regulated	none	
IMDG Additional information	None.				

Special precautions for user
: Not dangerous goods Keep away from heat.

Environmental hazards
: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: Not applicable.

SECTION 15. REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance or mixture <div> 1. Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures. 2. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. 3. In accordance with the legislation of the United Kingdom. 4. German legislation on water endangering substances VwVwS (see Section 12). </div>	
Chemical safety assessment	: A chemical safety assessment has not been carried out by the Manufacturer of this product.

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.

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

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16. OTHER INFORMATION

Legend

: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstract Services
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC: European Community
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial chemical Substances
EN: European Standard
EU: European Union
HSDB: Hazardous Substances Data Bank
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
OEL: National occupational exposure limits
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical Substances
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
WEL: Workplace Exposure Limit

Information Source

: 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2012 (Chempendium, RTECs, HSDB, INCHEM).

3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2012.

4. European Chemicals Agency, Classification Legislation, 2012.

5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2012.

Preparation Date (dd/mm/yyyy)

: 23/08/2012

H & R-Phrases (Full text)
: H302 - Harmful if swallowed.
H351 - Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
R22 - Harmful if swallowed.
Refer to section 2 for additional H and R phrases not listed here.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.



R&F Handmade Paints, Inc.
84 Ten Broeck Avenue
Kingston, NY, U.S.A. 12401
Telephone: 001-845-331-3112
Fax: 001-845-331-3242

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.
Page 13 of 13

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

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

<p>Prepared for: 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>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancescenter.com</p>	
<p>Distributed by: Art-Select Schützenstrasse 22 Deutsch Evern 21407 Germany Tél. : +49 4131 24151 Fax : +49 4131 24155 http://www.artselect.de</p>	

DISCLAIMER

This 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 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 SDS does not apply to use with any other product or in any other process.

This 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.

END OF DOCUMENT

1. Identification of the Preparation and of The Company

Product Name and/or code: **ENCAUSTIC GROUND**
Effective Date: **2/28/2014**
Manufacturer: **R&F HANDMADE PAINTS, INC.**
84 TEN BROECK AVENUE
KINGSTON, NY 12401 USA
Emergency Contact: **RICHARD FRUMESS, President 1-800-206-8088**
Product Use: **ART MATERIAL**

2. Hazards Identification

Classification of the Product: **Non-Hazardous**
Regulation (EC) No. 1272/2008 **Not classified as dangerous for supply/use.**
Directive 67/548/EEC & Directive 1999/45/EC **Not classified as dangerous for supply/use.**
Label Elements **No special requirements are applicable.**
Precaution Statement: **No special requirements are applicable.**
First Aid Statement **Refer to Section 4**
Children's Statement **Not any**
Information pertaining to particular dangers for man and environment. **This product has not been classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

3. Composition/Information on Ingredients:

Substances: **Water based Acrylic Ground**
Mixture of the following chemicals: **Proprietary Mixture**

Risk and Safety Phrases:

Ingredients are marked according to CLP Regulation (CLP-Regulation (EC) No 1272/2008) and according to DSD (Dangerous Substances Directive (67/548/EEC)) and DPD (Dangerous Preparations Directive (1999/45/EC)) and no workplace-related occupational exposure limits are specified for any of the listed ingredients.

4. First Aid Measures

Inhalation **Remove to fresh air.**
Skin Contact **Wash with soap and water**
Eye Contact **Carefully flush for water for 15 minutes. If irritation occurs, contact a physician.**
Ingestion **Drink water or milk to dilute. Do not induce vomiting. Contact a physician.**

5. Firefighting Measures

Extinguishing Media **Water, foam, carbon dioxide or dry chemical equipment.**
Fire/Explosion Hazards **Sealed containers may rupture. Product presents no unusual hazard.**
Flashpoint: **None.**

Additional Information	When fighting any fire, wear positive pressure self contained NIOSH approved breathing device.
6. Accidental Release Measures	
Environmental precautions	None.
Methods and Materials for Containment and Cleaning up	Contain spill. Recover as much as possible. Absorb remainder with an inert material. Place into closed container and store in a safe location to await disposal. Wash the spill area with soap and water.
7. Handling and Storage	
Safe Handling	Use under ventilated conditions. Avoid eye and skin contact. For personal protection, we recommend that employees wash thoroughly after handling product. Always wash before eating, smoking or using toilet facilities. Keep container closed when not in use. Keep container upright to prevent leakage.
Storage	Store between 50-100 deg. F., ideally 70 deg. F.
8. Exposure Controls/Personal Protection	
Personal Protective Equipment	Wear goggles where spills or splashing may occur. Wear water resistant impervious gloves if handling bulk amounts.
General	None.
Respiratory	Avoid temperatures above 350° F., the onset of polymer decomposition for acrylics. Sanding dust can become airborne and be an inhalation nuisance. Use with ventilation and avoid breathing dust. Wear a dust mask or a NIOSH approved respirator. Follow manufacturer's directions.
Protective clothing	None.
Eye Protection	Wear goggles where spills or splashing may occur.
9. Physical and Chemical Properties	
Appearance	White Opaque Water based Acrylic Coating
Physical State	Solid (Wax like)
Color	White
Odor	Slight Acrylic Odor
Boiling Point	212 F
Freezing Point	32 F
State (pH)	Not Known
Specific Gravity	1.04
Viscosity	Not Known
Flashpoint	None
Vapor Pressure	Equivalent to water.
Vapor Density	Equivalent to water.
Solubility in water	Miscible
10. Stability and Reactivity	
Reactivity:	Data not available.
Chemical Stability	Stable
Hazardous reactions	No dangerous reactions known.

Conditions to Avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous Decomposition	No dangerous decomposition products known.

11. Toxicological Information**Primary irritant effect:**

Eye Effects	No irritating effect
Skin Effects	No irritating effect
Sensitization	No effect

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to your experience and the information provided to us.

12. Ecological Information

Toxicity:	Not expected to be harmful to the environment.
Aquatic toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bio accumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
	No further relevant information available.

Additional ecological information**13. Disposal Considerations****Waste treatment methods**

Recommendation: Smaller quantities can be disposed of with household waste. Do not flush liquid paint into public sewer or water supply.

Uncleansed packaging

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. Transport Information

UN-NUMBER	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
UN proper shipping name	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
Transport hazard class(es)	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
Class	Not applicable
Label	Not applicable
Packing Group	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
Environmental Hazards	Not applicable
Marine pollutant	No
Special precautions for user	Not applicable
Danger code (Kemler)	Not applicable

Transport in bulk according to
Annex II of Marpol73/878 and
the IBC Code.

Not applicable

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture.

SARA Not applicable.

Section 355 (extremely hazardous substances)

Section 313 (Specific toxic chemical listing)

TSCA (Toxic Substance Control Act)

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer

Chemicals known to cause reproductive toxicity for females

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males

None of the ingredients is listed

Chemicals known to cause developmental toxicity

None of the ingredients is listed

Carcinogenicity categories

EPA (Environmental Protection Agency)

None.

TLV (Threshold Limit Value established by ACGIH)

None.

MAK (German Maximum Workplace Concentration)

None.

NOISH-Ca (National Institute for Occupational Safety &
Health)

None.

OSHA-Ca (Occupational Safety & Health Administration)

None.

16. Other Information

Reason for Issue:

5-Year Review

Prepared by:

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Chief Toxicologist and President

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