R&F
handmade PAINTS

Page 1 of 11

Encaustic Paints

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

MSDS Preparation Date (mm/dd/yyyy): 06/04/2012

# MATERIAL SAFETY DATA SHEET

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:		Manufacturer's name and address:
R&F Handmade Paints,	nc	. Refer to Supplier
34 Ten Broeck Avenue Kingston, New York, U.S.A. 2401 Email: info@rfpaints.com		
nformation Telephone #	:	(845) 331-3112 (Monday - Friday, 9:00 am - 5:00 pm, EST; Saturday, 10:00 am - 5:00 pm EST)
4 Hr. Emergency Tel #	:	Not available.
SECTION 2 - HAZARDS I	DF	INTIFICATION
Classification		OSHA:
		Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows / Cerulean Blue / Cobalt Blue / Cobalt Violet Deep / Cobalt Yellow: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification: Chronic Health Hazard.
		Encaustic Paints - Cobalt Violet Light: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification: Acute Health Hazard; Chronic Health Hazard.
		All other Encaustic Paints: This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).
		<ul> <li>WHMIS information:</li> <li>Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows / Cerulean Blue / Cobalt Blue / Cobalt Violet Deep / Cobalt Yellow:</li> <li>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</li> <li>Regulations (CPR). WHMIS classification: Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material).</li> </ul>
		Encaustic Paints - 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); Class D2B (Materials Causing Other Toxic Effects, 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).

HANDMADE			R&F Handmade Paints, In 84 Ten Broeck Avenu Kingston, NY, U.S.A. 1240 Telephone: (845) 331-311 Fax: (845) 331-324
Encaustic Paints			dmium Yellows; Green Gold Indian Yellow llean Blue; Cobalt Blue; Cobalt Violet Deep Cobalt Violet Light; Cobalt Yello
MSDS Preparation Date (mm	/dd/yyyy): 06/04	/2012	Page 2 of 1
Emergency Overview	: solid (Wa	ax like) - Various colours. Wax-like odou	r.
	Cobalt B Warning May be r	lue / Cobalt Violet Deep / Cobalt Yellow: ! mildly irritating to skin, eyes and respirato	bry system. The molten product can cause
	serious t	ourns. Possible cancer hazard - contains	material which may cause cancer.
	Encausti Warning	ic Paints - Cobalt Violet Light: !	
	May be r serious b	mildly irritating to skin, eyes and respirate	ory system. The molten product can cause Possible cancer hazard - contains material
	Caution!	Encaustic Paints: May be mildly irritating to skin, eyes and se serious burns.	respiratory system. The molten product
Inhalation : May cau	use mild respirat	resposure result in little or no irritation. The molten	product can cause serious burns.
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b>	result in little or no irritation. The molten ation.	in nausea and vomiting.
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chron	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result d or repeated overexposure to compone lisease.	in nausea and vomiting. ents of this product may cause lung and
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d : Possible	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result d or repeated overexposure to compone lisease.	nnausea and vomiting. Ints of this product may cause lung and NFORMATION, Section 11.
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d : Possible	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result d or repeated overexposure to compone lisease.	nnausea and vomiting. Ints of this product may cause lung and NFORMATION, Section 11.
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d : Possible : Cobalt V ects	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result ed or repeated overexposure to compone lisease. cancer hazard. See TOXICOLOGICAL fiolet Light: Possible sensitizer. See TOX	nnausea and vomiting. Ints of this product may cause lung and NFORMATION, Section 11.
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d : Possible : Cobalt V ects	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result d or repeated overexposure to compone lisease.	nnausea and vomiting. Ints of this product may cause lung and NFORMATION, Section 11.
Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effe	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d : Possible : Cobalt V ects : See ECC	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result ed or repeated overexposure to compone lisease. cancer hazard. See TOXICOLOGICAL fiolet Light: Possible sensitizer. See TOX	nnausea and vomiting. Ints of this product may cause lung and NFORMATION, Section 11.
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effe	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d : Possible : Cobalt V ects : See ECC	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result d or repeated overexposure to compone lisease. cancer hazard. See TOXICOLOGICAL fiolet Light: Possible sensitizer. See TOX	nnausea and vomiting. Ints of this product may cause lung and NFORMATION, Section 11.
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effe	use mild respirat kin contact may use mild eye irrit use irritation of n <b>ic) exposure</b> : Prolonge Kidney d : Possible : Cobalt V ects : See ECC	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result d or repeated overexposure to compone lisease. cancer hazard. See TOXICOLOGICAL fiolet Light: Possible sensitizer. See TOX	nnausea and vomiting. Ints of this product may cause lung and INFORMATION, Section 11.
Inhalation : May can Skin : Direct s Eyes : May can Ingestion : May can Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effects SECTION 3 - COMPOS	use mild respirat kin contact may use mild eye irrit use irritation of n ic) exposure : Prolonge Kidney d : Possible : Cobalt V ects : See ECC ITION/INFO	result in little or no irritation. The molten ation. nouth, throat, and stomach. May result ed or repeated overexposure to compone lisease. cancer hazard. See TOXICOLOGICAL iolet Light: Possible sensitizer. See TOX DLOGICAL INFORMATION, Section 12. <b>RMATION ON INGREDIENTS</b>	in nausea and vomiting. ents of this product may cause lung and NFORMATION, Section 11. ICOLOGICAL INFORMATION, Section 11
Inhalation : May can Skin : Direct s Eyes : May can Ingestion : May can Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effects SECTION 3 - COMPOS	use mild respirat kin contact may use mild eye irrit use irritation of n ic) exposure : Prolonge Kidney d : Possible : Cobalt V ects : See ECC ITION/INFO	cancer hazard. See TOXICOLOGICAL INFORMATION, Section 12. RMATION ON INGREDIENTS CAS #	in nausea and vomiting. ents of this product may cause lung and NFORMATION, Section 11. ICOLOGICAL INFORMATION, Section 11
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effe SECTION 3 - COMPOS Ingredients Encaustic Paints - Cadmiun Cadmium sulfoselenide oran	use mild respirat kin contact may use mild eye irrit use irritation of n ic) exposure : Prolonge Kidney d : Possible : Cobalt V ects : See ECC ITTION/INFO	cancer hazard. See TOXICOLOGICAL INFORMATION, Section 12. RMATION ON INGREDIENTS CAS # ains the following component:	wt.%
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effe SECTION 3 - COMPOS Ingredients Encaustic Paints - Cadmiun Cadmium sulfoselenide oran Encaustic Paints - Cadmiun Cadmium sulfoselenide red	use mild respirat kin contact may use mild eye irrit use irritation of n ic) exposure : Prolonge Kidney d : Possible : Cobalt V ects : See ECC ITTION/INFO	cancer hazard. See TOXICOLOGICAL INFORMATION, Section 12. RMATION ON INGREDIENTS CAS # ains the following component: 12656-57-4 https://www.ains.component: 12650-57-4 result in little or no irritation. The molten result in little or no irritation. The molten attom. The molten May result May re	in nausea and vomiting. ents of this product may cause lung and INFORMATION, Section 11. ICOLOGICAL INFORMATION, Section 11
Inhalation : May cau Skin : Direct s Eyes : May cau Ingestion : May cau Ingestion : May cau Effects of long-term (chroni Carcinogenic status Additional health hazards Potential environmental effe SECTION 3 - COMPOS Ingredients Encaustic Paints - Cadmiun Cadmium sulfoselenide red Encaustic Paints - Cadmiun Cadmium sulfoselenide red	use mild respirat kin contact may use mild eye irrit use irritation of n ic) exposure : Prolonge Kidney d : Possible : Cobalt V ects : See ECC ITION/INFO m Orange contair m Reds contair	carse hazard. See TOXICOLOGICAL INFORMATION, Section 12. RMATION ON INGREDIENTS CAS # ains the following component: 12656-57-4 126339-34-7	wt.%

68187 05 3

Item Numbers: 01108-1009

Spinols, cobalt tin groy

Page 2 of 11

15.00 - 40.00

R&F HANDMADE PAINTS			R&F Handmade Paints, Ind 84 Ten Broeck Avenu Kingston, NY, U.S.A. 1240 Telephone: (845) 331-311 Fax: (845) 331-324
Encaustic Paints			n Yellows; Green Gold Indian Yellow Blue; Cobalt Blue; Cobalt Violet Deep Cobalt Violet Light; Cobalt Yellov
MSDS Preparation Date (mm/	ld/yyyy): 06/04/2012		Page 3 of 1
Encaustic Paints - Cobalt B	ue contains the following component:		
Cobalt aluminate blue spinel	1345-16-0		15.00 - 40.00
Encaustic Paints - Cobalt V Cobalt(II) phosphate	olet Deep contains the following compo 13455-36-2	onent:	15.00 - 40.00
Encaustic Paints - Cobalt Y	llow contains the following component	:	
Tripotassium hexanitritocoba	ate 13782-01-9		15.00 - 40.00
Encaustic Paints - Indian Y	llow also contains the following compo	nent:	
C.I. Pigment Yellow 83	5567-15-7		3.00 - 7.00
Encaustic Paints - Viridian	ontains the following component:		0.00 7.00
Chromium (III) oxide, hydrate			10.00 - 25.00
	Oxide Green contains the following co	mpopent:	10.00 - 25.00
Chromium (III) oxide	1308-38-9		10.00 05.00
. ,			10.00 - 25.00
Ammonium cobalt phosphate	let Light contains the following compo 14590-13-7	nent:	
Animonium cobait phosphate	14390-13-7		15.00 - 40.00
ECTION 4 - FIRST AII	MEASURES		
nhalation	: Move to fresh air. If breathing has st give oxygen by qualified medical per medical attention.		
Skin contact	: Cool skin rapidly with cold water after with soap and water. If irritation or s contaminated clothing before reuse.	ymptoms develop, s	
Eye contact	: In case of contact with eyes, rinse ir advice.	nmediately with plei	nty of water and seek medical
ngestion	: Do NOT induce vomiting. Never give symptoms develop, seek medical at		n to an unconscious person. If
Notes For Physician	: Treat symptomatically.		
SECTION 5 - FIRE FIGI	TING MEASURES		
Fire hazards/conditions of f	ammahility		
	: Not flammable under normal condition	ons of handling. M	lay produce a floating fire hazard.
Flammability classification	OSHA 29 CFR 1910.1200)		
	: Not flammable.		
Dxidizing properties	: None known.		
Explosion data: Sensitivity	<ul> <li>mechanical impact / static discharge</li> <li>Not expected to be sensitive to meet</li> </ul>	hanical impact of at	atic discharge
Suitable extinguishing medi	<ul> <li>Not expected to be sensitive to mec</li> <li>Dry chemical, foam, carbon dioxide</li> </ul>		0
	burning material.	D01	
Special fire-fighting proced	res/equipment		
	<ul> <li>Firefighters should wear proper prot apparatus with full face piece operat area if safe to do so. Water spray m flame.</li> </ul>	ed in positive press	sure mode. Move containers from fire
lazardous combustion prod			
-	: Carbon oxides; Nitrogen oxides; Sul	phur oxides; Metal	oxides.
NFPA Rating	0 - Minimal 1 - Slight	2 - Moderate	3 - Serious
	<u> </u>		0 0011000

Item Numbers: 01108-1009

Page 3 of 11

R&F HANDMADE PAINTS	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	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;
MSDS Preparation Date (mm/d	d/yyyy): 06/04/2012 Page 4 of 11
SECTION 6 - ACCIDENT	AL 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 Spill response/cleanup	<ul> <li>Do not allow material to contaminate ground water system.</li> <li>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.</li> </ul>
Prohibited materials	: None known or reported by the manufacturer.
Special spill response proced	lures
	<ul> <li>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).</li> <li>US CERCLA Reportable quantity (RQ): None reportable.</li> </ul>
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.



Encaustic Paints

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

MSDS Preparation Date (mm/dd/yyyy): 06/04/2012

Page 5 of 11

# SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

	ACGIH TLV		OSHA PEL	
<b>Ingredients</b>	TWA	STEL	PEL	STEL
Encaustic Paints - Cadmium Orar	nge contains the following	g component:		
Cadmium sulfoselenide orange	0.01 mg/m³ (inhalable); 0.002 mg/m³ (respirable) (as Cd)	N/Av	0.2 mg/m³ (dust); 0.1 mg/m³ (fume) (as Cd)	0.6 mg/m³ (dust); 0.3 mg/m³ (fume) (as Cd)
Encaustic Paints - Cadmium Red	s contain the following co	omponent:		
Cadmium sulfoselenide red	0.01 mg/m³ (inhalable); 0.002 mg/m³ (respirable) (as Cd)	N/Av	0.2 mg/m³ (dust); 0.1 mg/m³ (fume) (as Cd)	0.6 mg/m³ (dust); 0.3 mg/m³ (fume) (as Cd)
Encaustic Paints - Cadmium Yello	ows contain the following	component:		
Cadmium zinc sulfide yellow	0.01 mg/m³ (inhalable); 0.002 mg/m³ (respirable) (as Cd)	N/Av	0.2 mg/m³ (dust); 0.1 mg/m³ (fume) (as Cd)	0.6 mg/m³ (dust); 0.3 mg/m³ (fume) (as Cd)
Encaustic Paints - Cerulean Blue	contains the following co	omponent:		
Spinels, cobalt tin grey	0.02 mg/m³ (as 'Cobalt')	N/A∨	0.1 mg/m³ (as 'Cobalt')	N/Av
Encaustic Paints - Cobalt Blue co	ontains the following com	ponent:		
Cobalt aluminate blue spinel	0.02 mg/m³ (as 'Cobalt')	N/A∨	0.1 mg/m³ (as 'Cobalt')	N/Av
Encaustic Paints - Cobalt Violet D	Deep contains the followir	ng component:		
Cobalt(II) phosphate	0.02 mg/m³ (as 'Cobalt')	N/A∨	0.1 mg/m³ (as 'Cobalt')	N/Av
Encaustic Paints - Cobalt Yellow	contains the following co	mponent:		
Tripotassium hexanitritocobaltate	0.02 mg/m³ (as 'Cobalt')	N/A∨	0.1 mg/m³ (as 'Cobalt')	N/Av
Encaustic Paints - Indian Yellow a	also contains the followin	g component:		
C.I. Pigment Yellow 83	N/Av	N/Av	N/Av	N/Av
Encaustic Paints - Viridian contai	ns the following compone	ent:		
Chromium (III) oxide, hydrated	0.5 mg/m³ (as 'metal & Cr III compounds')	N/Av	0.5 mg/m³ (as 'Cr III compounds')	N/Av
Encaustic Paints: Chromium Oxid	de Green contains the foll	lowing compon	ent:	
Chromium (III) oxide	0.5 mg/m³ (as 'metal & Cr III compounds')	N/Av	0.5 mg/m³ (as 'Cr III compounds')	N/Av
Encaustic Paints: Cobalt Violet L	ight contains the followin	g component:		
Ammonium cobalt phosphate	0.02 mg/m³ (as 'Cobalt')	N/Av	0.1 mg/m³ (as 'Cobalt')	N/Av

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

R&F HANDMADE PAINTS			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			e; Cobalt Blue; Cobalt Violet Deep; Cobalt Violet Light; Cobalt Violet Violet Deep;
MSDS Preparation Date (mm/d	d/yyyy): 06/04/2012		Page 6 of 11
Respiratory protection			tor is advised. Confirmation of pplication should be obtained from
Skin protection	: Gloves impervious to th suppliers.	e material are recommended. A	dvice should be sought from glove
Eye / face protection	: Safety goggles or glass	es as appropriate for the job.	
Other protective equipment		e required depending on workplac Ild be made available in the immed	
General hygiene consideratio	<ul> <li>Avoid breathing fumes. or use cosmetics while before eating, drinking,</li> </ul>	Avoid contact with skin, eyes and working with this product. Upon co smoking or use of toilet facilities. F Do not take contaminated clothing	mpletion of work, wash hands Remove and wash contaminated
SECTION 9 - PHYSICAL	AND CHEMICAL PRO	PERTIES	
Physical state Odour	: solid (Wax like) : Wax like	Appearance Odour threshold	: Various colours. : N/Av
pH	: N/Ap		
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 dist	ribution : N/Av
Vapour pressure (mmHg @ 2	<ul> <li>0° C / 68° F)         <ul> <li>N/Ap Does not form vapours at normal room temperatures.</li> </ul> </li> </ul>	Solubility in water	: insoluble
Vapour density (Air = 1)	: N/Ap	Evaporation rate (n-Butyl a	cetate = 1) : N/Av
Volatile organic Compounds	<b>(VOC's)</b> : N/Ap	Volatiles (% by weight)	: Negligible
Flash point	: > 240°C (> 464°F)		
Flash point Method	: open cup	Auto-ignition temperature	: N/Av
Lower flammable limit (% by	vol.) : N/Av	Upper flammable limit (% b	<b>y vol.)</b> <u>-</u> N/Av
Flame Projection Length	: N/Ap	Flashback observed	: N/Av : N/Ap
Viscosity	: N/Ap		· ·
Absolute pressure of contain	ier : N/Ap		
Section 10: Stability And F	·		
Stability and reactivity	•	mended storage and handling con	ditions prescribed.
Hazardous polymerization	: Will not occur.		
Conditions to avoid		ation, especially in confined areas. om extreme heat and flame.	Avoid contact with incompatible
Materials To Avoid And Incon			
Hazardous decomposition pr	: Strong oxidizing agents oducts : None known, refer to ha	and acids. azardous combustion products in S	Section 5.
SECTION 11 - TOXICOL		•	
Target organs		system, digestive system. Kidneys.	
Routes of exposure	: Inhalation: YES Ski	n Absorption: NO Skin & Eye	es: YES Ingestion: YES

Item Numbers: 01108-1009

Page 6 of 11

R&F
handmade PAINTS

Encaustic Paints

Toxicological data

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 7 of 11

MSDS Preparation Date (mm/dd/yyyy): 06/04/2012

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

	LC50(4hr)	LD <sub>50</sub>		
Ingredients	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)	
Encaustic Paints - Cadmiun	n Orange contains the follow	ing component:		
Cadmium sulfoselenide orange	N/Av	> 5110 mg/kg	N/Av	
Encaustic Paints - Cadmiun	n Reds contain the following	component:		
Cadmium sulfoselenide red	> 140 mg/m³/2H	> 5110 mg/kg	N/Av	
Encaustic Paints - Cadmiun	n Yellows contain the following	ng 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 B	lue contains the following co	mponent:		
Cobalt aluminate blue spinel	N/Av	> 5000 mg/kg	N/Av	
Encaustic Paints - Cobalt V	iolet Deep contains the follow	ving component:	-	
Cobalt(II) phosphate	N/Av	> 1500 mg/kg (supplier)	N/Av	
Encaustic Paints - Cobalt Y	ellow contains the following	component:		
Tripotassium hexanitritocobaltate	N/Av	N/Av	N/Av	
Encaustic Paints - Indian Ye	ellow also contains the follow	/ing component:		
C.I. Pigment Yellow 83	> 4448 mg/m³	> 5000 mg/kg	> 3000 mg/kg	
Encaustic Paints - Viridian o	contains the following compo	pnent:	-	
Chromium (III) oxide, hydrated	N/Av	N/Av	N/Av	
Encaustic Paints: Chromiur	n Oxide Green contains the f	ollowing component:		
Chromium (III) oxide	> 5.41 mg/L	> 15,000 mg/kg	N/Av	
Encaustic Paints: Cobalt Vi	olet Light contains the follow	ving component:		
Ammonium cobalt phosphate	N/Av	> 1470 mg/kg	N/Av	
Carcinogenic status		Reds; Cadmium Yellows: ds. Cadmium and Cadmium co 1), the ACGIH (Category A2), t		
		Cobalt Violet Deep; Cobalt Viole Cobalt compounds are classifie		
	All other Encaustic Paints: No OSHA or NTP.	components are listed as carc	inogens by ACGIH, IARC,	
		, Encaustic Paints - Indian Yel lo. 91-94-1). 3,3'-dichlorobenzi		
		, , , , , , , , , , , , , , , , , , , ,		
Reproductive effects	: Not expected to cause reprod			

R&F HANDMADE PAINTS	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	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
MSDS Preparation Date (mm/c	ld/yyyy): 06/04/2012 Page 8 of 11
Epidemiology	: Not available.
Sensitization to material	<ul> <li>Encaustic Paints - Cobalt Violet Light: May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.</li> </ul>
	All other Encaustic Paints: 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 ov	erexposure : Pre-existing skin, eye and respiratory disorders.
SECTION 12 - ECOLOGI	CAL 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.
<b>Bioaccumulation potential</b>	: No data is available on the product itself.
Other Adverse Environmenta	I effects
	: No additional information.
<b>SECTION 13 - DISPOSAI</b>	L 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.

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	None	Not regulated.	Not regulated	none	$\bigotimes$
49CFR/DOT Additional information	None.	!			
TDG	None	Not regulated.	Not regulated	none	$\oslash$
TDG Additional	None.	•			
information 01108-1009					



Encaustic Paints

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

Page 9 of 11

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

MSDS Preparation Date (mm/dd/yyyy): 06/04/2012

## 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.

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 - Cobalt Violet Light: Immediate (Acute) health hazard; Chronic Health Hazard. Encaustic Paints - Cadmium Orange / Cadmium Reds / Cadmium Yellows / Cerulean Blue / Cobalt Blue / Cobalt Violet Deep /

Cobalt Yellow: 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				
	Health: *2 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				

Item Numbers: 01108-1009

Page 9 of 11

HANDMADE		84 Ten Broeck / Kingston, NY, U.S.A. Telephone: (845) 33 Fax: (845) 33
Encaustic Paints		e; Cadmium Reds; Cadmium Yellows; Green Gold Indian Y Green; Viridian; Cerulean Blue; Cobalt Blue; Cobalt Violet Cobalt Violet Light; Cobalt
MSDS Preparation Date (n	nm/dd/yyyy): 06/04/2012	Page
	NJ: New Jersey NTP: National Toxicology OSHA: Occupational Safe PEL: Permissible exposur RCRA: Resource Conserv RTECS: Registry of Toxic SARA: Superfund Amendr STEL: Short Term Exposu TDG: Canadian Transport TLV: Threshold Limit Valu TPQ: Threshold Planning TSCA: Toxic Substance C TWA: Time Weighted Ave	sportation ction Agency Is Identification System inces Data Bank by for Research on Cancer dealth Administration ction Association of Occupational Safety and Health Program ty and Health Administration e limit vation and Recovery Act Effects of Chemical Substances ments and Reauthorization Act irre Limit ation of Dangerous Goods Act & Regulations es Quantity iontrol Act
References	<ul> <li>1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents of Biological Exposure Indices for 2012.</li> <li>2. International Agency for Research on Cancer Monographs, searched 2012.</li> <li>3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2 (Chempendium, HSDB and RTECs).</li> <li>4. Material Safety Data Sheets from manufacturer.</li> <li>5. US EPA Title III List of Lists - October 2006 version.</li> <li>6. California Proposition 65 List - March 16, 2012 version.</li> </ul>	
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.		R&F HANDMADE PAINTS
Prepared by: ICC The Compliance Center http://www.thecomplian		icc Compliance Cente
L		1



Page 11 of 11

Encaustic Paints

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

MSDS Preparation Date (mm/dd/yyyy): 06/04/2012

## 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.

Preparation Date (mm/dd/yyyy)

: 06/04/2012

END OF DOCUMENT