

- Recd 3-27-03

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01101-0089

**Material Safety Data Sheet for R&F Encaustics**  
**OSHA Hazard Communication Standard (29 CFR 1910.1200)**  
**Similar to OSHA Forms 20 and 174U S Department of Labor**  
**Printed Date 3/27/98 at 10:23:2**

CC97-231DNNEW97 FCLINE COL

**Manufacturer's Name and Location**

R&amp;F Handmade Paints, Inc.

506 Broadway

Kingston, NY 12401

Contact - Richard Frumess, P resident

For Information - 1.800.206.8088

Emergency Telephone # - 1.800.206.8088 or phone your local Poison Control Center

Preparation Date - 1/14/98 Rev.# 00

**CONFIRM ALL INFORMATION PRIOR TO USE****Label Statements for R&F Encaustics**

Acute Toxicity - no label required

Chronic Toxicity - no label required

**California Prop 65 Warning Statement**

Warning! This product contains an ingredient known to the state of California to cause cancer

**Certification Assurance**

Conforms to ASTM D-4236

**Children's Hazard Warning**

Keep Out of Reach of Children

**Abbreviations:**

Not Applicable: n/a

Not Flammable: n/f

Not Known: n/k

Repirable Fraction: r

Permissible Exposure Limit: pel

Ceiling Value: c

Not Determined: n/d

Not Listed: n/l

ACGIH Threshold Limit Value: tlv

The data shown is taken from sources judged to be reliable. The user should judge both the accuracy and the suitability of this information for any intention or purpose. No other warranty is given.

TLV Reg. TM, ACGIH

**Data for Cobalt Colors:****Hazardous Ingredients/Identity/Standards/Content Information**

Ingredient Listing - wax/oil base medium	Ingredient Listing - cobalt pigment
CAS No. - mixture	CAS No. - mixture
OSHA PEL - n/l	OSHA PEL - 0.1 mg/m <sup>3</sup>
ACGIH TLV - n/l	ACGIH TLV - .02 mg/m <sup>3</sup>
STEL - n/l	STEL - n/l
% COMP - <95.00	% COMP - <50.00

The other ingredients in the wax base medium are judged to be non-hazardous, in this form, and are regarded as trade secrets

**Physical/Chemical Characteristics**

Boiling Point - >260 degrees C.  
 Melting Point - <110 degrees F.  
 Vapor Pressure - n/a  
 Evaporation Rate - n/a  
 Odor - odor of wax  
 Specific Gravity - 0.927 - 0.970  
 Vapor Density - n/a  
 Water Solubility - insoluble  
 Appearance - colored wax

**Fire and Explosion Hazard Data**

Flash Point - >240 degrees C.  
 Flash Point Method - open cup  
 Lower Flammability Limit - n/l  
 Upper Flammability Limit - n/l  
 Extinguishing Medium - foam, dry chemical and CO<sub>2</sub>  
 Specialized Fire/Fighting Procedure - n/k  
 Unusual Fire and Explosion Hazard - n/k

**Reactivity Data**

Stable - yes  
 Incompatibility - n/k  
 Conditions to Avoid - n/k  
 Hazardous Decomposition - yes  
 Hazardous Polym. - no

**Health Hazard Data:**

Contains cobalt compound which may cause cancer if eaten (risk of cancer depends on duration and level of exposure). DO NOT EAT. Wash hands and face after use and before eating or smoking. Fumes from molten wax may cause mild upper respiratory irritation and cause burns when in contact with skin. Wax will release toxic fumes when heated above its decomposition temperature. Addition of solvents to this product will release fumes which may be harmful when heated above 200 degrees F. (93 degrees C.). Not intended for use by children. Keep out of reach of children.

**Routes of Entry**

Inhalation - yes  
 Skin - no  
 Ingestion - yes

**Carcinogen**

NTP - n/l  
 IARC - n/l  
 OSHA - n/l

**Signs/Symptoms of Exposure - none****Medical Conditions to Avoid - none**

First Aid: If eaten seek medical attention immediately. If skin is irritated wash with soap & water. If irritation persists see a physician.

**Precautions for Safe Handling and Use:**

Spill -if heated, allow to cool  
 Waste Disposal - dispose in an appropriate manner which complies with local regulations  
 Precautions - do not store near heat, keep cool  
 Other Precautions - none

**Control Measures**

Respiratory Protection - normally not needed  
 Local Exhaust - use local exhaust if pigment sticks are heated  
 Specific Local Exhaust - normally not needed  
 Mechanical Exhaust - provide more ventilation if necessary  
 Other Mechanical Exhaust - normally not needed  
 Protective Gloves - wear gloves or barrier cream to protect against contact  
 Eye Protection - normally not needed  
 Protective Clothing - normally not needed, suggest freshly laundered artist's smock  
 Work Practices - wash hands and face after use

**Data For Cadmium Colors:****Hazardous Ingredients/Identity/Standards/Content Information**

Ingredient Listing - wax/oil base medium

CAS No. - mixture

OSHA PEL - n/a

ACGIH TLV - n/a

STEL - n/a

% COMP - &lt;95

Ingredient Listing - cadmium pigments

CAS No. - mixture

OSHA PEL - .005 mg/m3

ACGIH TLV - .002 mg/m3

STEL - n/a

% COMP - &lt;50

The other ingredients in the wax base medium are judged to be non-hazardous, in this form, and are regarded as trade secrets

**Physical/Chemical Characteristics**

Boiling Point - &gt;260 degrees C.

Melting Point - &lt;110 degrees F.

Vapor Pressure - n/a

Evaporation Rate - n/a

Odor - odor of wax

Specific Gravity - 0.927-0.970

Vapor Density - n/a

Water Solubility - insoluble

Appearance - colored wax

**Fire and Explosion Hazard Data**

Flash Point - &gt;240 degrees C.

Flash Point Method - open cup

Lower Flammability Limit - n/l

Upper Flammability Limit - n/l

Extinguishing Medium - foam, dry chemical and CO2

Specialized Fire/Fighting Procedure - none

Unusual Fire and Explosion Hazard - none

**Reactivity Data**

Stable - yes

Incompatibility - none

Conditions to Avoid - none

Hazardous Polym. - no

Hazardous Decomposition - yes

**Health Hazard Data**

Contains cadmium compounds which may cause cancer if eaten (risk of cancer depends on duration and level of exposure). Effects of ingestion are cumulative due to slow elimination of absorbed cadmium. May cause harm to kidneys, testes and developing fetus.

Prolonged or repeated skin contact may cause irritation and dermatitis. DO NOT EAT. Wash hands and face after use and before eating or smoking. Not intended for use by children. Keep out of reach of children.

**Routes of Entry**

Inhalation - yes

Skin - no

Ingestion - yes

**Carcinogen**

NTP - listed

IARC - listed

OSHA - listed

Signs/Symptoms of Exposure - not listed

Medical Conditions to Avoid - none

First Aid: If eaten seek medical attention immediately. If skin is irritated wash with soap & water. If irritation persists see a physician.

**Precautions for Safe Handling and Use:**

Spill - if heated, allow to cool

Waste Disposal - dispose in an appropriate manner which complies with local regulations

Precautions - do not store near heat, keep cool

Other Precautions - none

**Control Measures**

Respiratory Protection - normally not needed

Local Exhaust - use local exhaust if pigment sticks are heated

Specific Local Exhaust - normally not needed

Mechanical Exhaust - provide more ventilation if necessary

Other Mechanical Exhaust - normally not needed

Protective Gloves - wear gloves or barrier cream to protect against contact

Eye Protection - normally not needed

Protective Clothing - normally not needed, suggest freshly laundered artist's smock

Work Practices - wash hands and face after use

**Data For All Colors Except Cadmium & Cobalt:****Hazardous Ingredients/Identity/Standards/Content Information**

Ingredient Listing - wax/oil base medium  
 CAS No. - mixture  
 OSHA PEL - n/a  
 ACGIH TLV - n/a  
 STEL - n/a  
 % COMP - <95

Ingredient Listing - pigments/colorants  
 CAS No. - mixture  
 OSHA PEL - n/a  
 ACGIH TLV - n/a  
 STEL - n/a  
 % COMP - <50

The ingredients in the wax base medium are judged to be non-hazardous, in this form, and are regarded as trade secrets

**Physical/Chemical Characteristics**

Boiling Point - >260 degrees C.  
 Melting Point - <110 degrees F.  
 Vapor Pressure - n/a  
 Evaporation Rate - n/a  
 Odor - odor of wax  
 Specific Gravity - 0.927-0.970  
 Vapor Density - n/a  
 Water Solubility - insoluble  
 Appearance - colored wax

**Fire and Explosion Hazard Data**

Flash Point - >240 degrees F.  
 Flash Point Method - open cup  
 Lower Flammability Limit - n/l  
 Upper Flammability Limit - n/l  
 Extinguishing Medium - foam, dry chemical and CO2  
 Specialized Fire/Fighting Procedure - none  
 Unusual Fire and Explosion Hazard - none

**Reactivity Data**

Stable - yes  
 Incompatibility - none  
 Conditions to Avoid - none  
 Hazardous Polym. - no  
 Hazardous Decomposition - yes

**Health Hazard Data**

Not intended for use by children. Keep out of reach of children.

**Routes of Entry**

Inhalation - yes  
 Skin - no  
 Ingestion - n/k

**Carcinogen**

NTP - n/l  
 IARC - n/l  
 OSHA - n/l

Signs/Symptoms of Exposure - n/l  
 Medical Conditions to Avoid - none  
 First Aid - normally not needed

**Precautions for Safe Handling and Use:**

Spill - if heated, allow to cool  
 Waste Disposal - dispose in an appropriate manner which complies with local regulations  
 Precautions - do not store near heat, keep cool  
 Other Precautions - none

**Control Measures**

Respiratory Protection - normally not needed  
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