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Material Safety Data Sheet

Section 1 Product and Company Identification

Product Name: Artists Paintstik - Cadmium Colors
 MSDS #: 136 Date Prepared: April 24, 2001
 Revision #: 2.0 Date Revised: April 24, 2001

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Manufacturer: Jack Richeson & Co. P.O. Box 160 Kimberly, WI 54136 Information Telephone: (800)233-2404 Emergency Telephone: (800)233-2404 Chemical Formula: Mixture CAS No.: NOT Applicable. Derivation: Not Applicable. Synonyms: Not Applicable. General Use: Paints for fine arts and crafts.	Supplier (for Canadian and EEC use):
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Section 2 Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	
Cadmium Compounds ²	7440-43-9	13 - 15
(For Section 2 footnotes: See Section 15)		

V3586

Section 3 Hazards Identification

EMERGENCY OVERVIEW: DANGER: Contains Cadmium. Cancer Hazard. Avoid creating Dust. Can cause Lung and Kidney disease.

Risk Phrases (Canada): Contains Cadmium. Cancer Hazard. Can cause Lung and Kidney disease.
 Precautionary Statements (Canada): Avoid creating Dust.
POTENTIAL HEALTH EFFECTS:
 Primary Exposure Routes: Ingestion, Inhalation.
 Acute Effects
 Eyes: None.
 Skin: None.
 Ingestion: Possible nausea or diarrhea if large amounts ingested.
 Inhalation: None.

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Chronic Effects

Eyes: None.

Skin: None.

Ingestion and Inhalation: Certain cadmium compounds are known to cause kidney damage in humans and to cause lung cancer in laboratory animals. However, no chronic health effects have been shown to result from exposure to cadmium pigments.

Cadmium pigments have been shown to be significantly less biologically available and less active than other cadmium compounds.

Carcinogenicity: Cadmium and cadmium compounds are listed in the annual NTP Report as carcinogenic to animals, but with only limited evidence of carcinogenicity to humans. IARC classifies cadmium and cadmium compounds as carcinogenic to humans. This information is based on test results for cadmium compounds other than the pigmentary forms.

Target Organ Effects: Kidneys and lungs.

Medical Conditions Aggravated by Long-Term Exposure: Not Determined.

Other Information: Not Applicable.

Section 4

First Aid

Eye Contact: Flush with water.

Skin Contact: Wash with soap and water.

Ingestion: Give one or two glasses of water to drink and then induce vomiting. Consult physician. Never give anything by mouth to an unconscious person.

Inhalation: None.

Other Information: None.

Section 5

Fire Fighting Measures

Flash Point (method): 400°F/204°C (unknown)

Autoignition Temperature: Not Determined.

LEL: Not Determined. **UEL:** Not Determined.

Flammability Classification:

Extinguishing Media: Carbon Dioxide, Foam, Dry Chemical, Water.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, possibly other toxic gases. If heated to temperatures above 700°C in air, cadmium pigments will decompose to form fumes of cadmium oxide, zinc oxide, and sulfur dioxide.

Unusual Fire or Explosion Hazards: Rags and waste paper containing this product may burn spontaneously. Store wiping rags containing this product in metal containers with tight lids.

Fire-Fighting Instructions/Equipment: Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

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Section 6 Accidental Release Measures

Avoid generating dust. Use recommended personal protective equipment (see Section 8).

Small Spill: Sweep or scrape up.

Large Spill: Generally treat as a small spill. If large quantities are exposed to excessive heat, this product may melt. Allow melted material to cool and then scrape up.

Section 7 Handling and Storage

Handling Precautions: Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling.

Storage Requirements: Store in a cool, dry area.

Section 8 Exposure Controls/Personal Protection

Eye/Face Protection: None.

Skin Protection: None.

Respiratory Protection: None normally needed

Other Personal Protective Equipment: None.

Engineering Controls: Normal room ventilation.

Administrative Controls: Users of this product must be properly trained and qualified in its use.

Other Information: None.

Section 9 Physical and Chemical Properties

Appearance/Physical State: Solid paint of various colors.

Odor: Oil paint.

Odor Threshold (ppm): Not Determined.

Specific Gravity (H₂O = 1): >1

Solubility in Water: Insoluble.

Coefficient of Water/Oil Solubility: <1

pH: Not Applicable.

Melting Point: 150°F/66°C

Boiling Point: Not Determined.

Vapor Pressure (mm Hg at 20°C): Not Determined. Expected to be low.

Vapor Density (Air = 1): Not Applicable.

Evaporation Rate (n-BuAc=1): Not Applicable.

V.O.C.: 0% (w/w), 0% (v/v), 0 lbs./gal. (U.S.), 0 kg/l

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Section 10 Stability and Reactivity

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Not Applicable.

Chemicals to Avoid: Acids, Oxidizers.

Hazardous Decomposition Products (non-thermal): Hydrogen sulfide and water soluble cadmium compounds.

Section 11 Toxicological Information

Sensitization to Product: Not Applicable.

Irritancy of Product: Not Applicable.

Reproductive Toxicity: Not Applicable.

Teratogenicity: Not Applicable.

Mutagenicity: Not Applicable.

Other Information:

Acute: No mortality was observed in an inhalation study in which rats inhaled cadmium pigment at 100 mg/m³ (as Cd) for two hours. Similarly negative mortality results were reported for rats exposed continuously to airborne concentration of pigment of 1 mg/m³ (as Cd) for one month. No mortality was observed during a seven-day feeding study in which rats consumed feed containing up to 50,000 mg/kg pigment.

Chronic: IARC classifies cadmium and cadmium compounds under Group I - carcinogenic to humans. Although cadmium pigments are included in this generic group, the classification is based on studies involving other cadmium compounds. Two long-term inhalation studies involving cadmium pigments have been reported. In the first, mice and hamsters were exposed to pigment up to 1,000 ug/m³ (as Cd) for 44 weeks. No carcinogenic response was observed. In the second, rats were exposed to pigment at airborne concentrations up to 2,430 ug/m³ for up to 18 months. The authors reported a carcinogenic response for pigments similar to other cadmium compounds tested. Subsequent investigations by the original authors and others have determined the aerosol generation technique exposed the rats to other forms of cadmium. The original findings of the rat study can be entirely explained by the inadvertent exposure to non-pigment forms of cadmium.

Toxicological information regarding individual ingredients, if applicable, may be found in Section 2.

Section 12 Ecological Information

Cadmium compounds are listed under the U.S. Clean Water Act, section 307 Priority Pollutants and section 304 Water Quality Criteria Substances.

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Section 13 Disposal Considerations

Rags and waste paper containing this product may burn spontaneously. Store wiping rags containing this product in metal containers with tight lids.

Cadmium pigment is neither a listed hazardous waste nor a characteristic hazardous waste as defined by the U.S. Environmental Protection Agency. Dispose of in accordance with applicable federal, state, and local regulations.

Section 14 Transport Information

U.S. D.O.T.

Proper Shipping Name: Not Regulated.

Hazard Class or Division: Not Regulated.

I.D. Number: Not Regulated.

Australian Code for the Transport of Dangerous Goods

Dangerous Goods Class and Subsidiary Risk: Not Determined.

Section 15 Regulatory Information

Footnotes for Section 2:

- 1 Subject to the reporting requirements of SARA Title III, Section 313.
- 2 Appears on the California Safe Drinking Water and Toxic Enforcement Act Substances List.
- 3 Appears on the Massachusetts Substances List.
- 4 Appears on the New Jersey Right-To-Know Hazardous Substances List.
- 5 Appears on the Pennsylvania Hazardous Substances List.
- 6 Appears on the Canadian WHMIS Ingredient Disclosure List.

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Arts and Crafts Material Institute (U.S.): Certified as non-toxic by ACMI.

U.S. Federal Hazardous Substance Labeling Act: Artists Paintstik was tested by an independent laboratory and found to be non-toxic, non-irritating to the skin and eyes within the meaning of the U.S. Federal Hazardous Substance Labeling Act.

U.S. OSHA Hazard Status: This product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

U.S. EPA SARA sec. 311/312 Hazard Categories: Delayed (Chronic) Health Hazard.

HMIS Rating (U.S.): Health 1*, Flammability 1, Reactivity 0

NFPA Rating: Health 1, Flammability 1, Reactivity 0

Canadian WHMIS Status: This product is considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.

WHMIS Rating (Canada): D-2A

WHMIS Risk Phrases and Precautionary Statements: See EMERGENCY OVERVIEW in section 3 above.

CHIP 2 Categories of Danger (England): Not Determined.

Worksafe Australia Status: This product is classified as hazardous according to criteria of Worksafe Australia.

HAZCHEM Code (Australia): Not Determined.

Poisons Schedule Number (Australia): Not Determined.

U.S. Toxic Substances Control Act (TSCA): All ingredients contained in this product are listed on the U.S. EPA TSCA Chemical Substance Inventory.

Canadian Domestic Substances List (DSL): All ingredients contained in this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

European Inventory of Existing Chemical Substances (EINECS): All ingredients contained in this product are listed on the European Inventory of Existing Chemical Substances (EINECS).

Further regulatory information regarding individual ingredients, if applicable, may be found in Section 2.

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard, the Canadian WHMIS Controlled Products Regulations, and the Australian NMRCWHS. This MSDS contains the information required by the above regulations and conforms to ANSI Z400.1-1993.

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Section 16**Other Information**

MSDS Prepared By: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.