

**M A T E R I A L   S A F E T Y   D A T A   S H E E T**

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**CARDINAL INDUSTRIAL FINISHES**

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**A-4100 ACRYLIC AEROSOL ENAMEL**

**SECTION I      COMPANY AND PRODUCT INFORMATION**

**CARDINAL INDUSTRIAL FINISHES**

1929 POTRERO AVENUE  
SOUTH EL MONTE, CA 91733

**INFORMATION:**

24-Hour Emergency Phone:

**PREPARED BY:**

PHONE: (626) 444-9274 or (323) 283-9335 FAX: (626) 444-0382  
(800) 424-9300 Chemtec  
Richard A. Stewart

**PRODUCT:**

**GENERAL DESCRIPTION:**

A-4100 ACRYLIC AEROSOL ENAMEL  
Industrial Aerosol Touch Up Paint

**HMIS CODES:**

H: 2   F: 4   R: 0   P:

**SECTION II      HAZARDOUS INGREDIENTS**

INGREDIENT	EXPOSURE LIMITS	V. P. (mmHg @ 20°C)	CAS No.	% WT
Propane Blend		8.6	74-98-6	25% - 30%
	OSHA PEL: 1000 PPM; ACGIH TLV: 1000 PPM			
Acetone		185	67-64-1	25% - 30%
	OSHA PEL: 1000 PPM, ACGIH TLV: 500 PPM			
Methyl Ethyl Ketone		70	78-93-3	15% - 20%
	OSHA PEL: 200 PPM, ACGIH TLV: 200 PPM			
Methyl Isobutyl Ketone		15.7	108-10-1	5% - 10%
	OSHA PEL: 100 PPM; ACGIH TLV: 20 PPM			
n-Methylpyrrolidone		.02	872-50-4	1% - 5%
	OSHA PEL: N/E; ACGIH TLV: N/E			
Ethylene glycol mono butyl ether		.9	111-76-2	1% - 5%
	OSHA PEL: 50 PPM; ACGIH TLV: 20 PPM			
Isobutyl Acetate		13	110-19-0	1% - 5%
	OSHA PEL: 150 PPM; ACGIH TLV: 150 PPM			

The following substances may be present in varying quantities depending on color.

Titanium Dioxide		0	13463-67-7	0% - 60%
	OSHA PEL: 15 mg/m <sup>3</sup> ; ACGIH TLV: 10 mg/m <sup>3</sup>			
Carbon Black		0	1333-86-4	0% - 40%
	OSHA PEL: 3.5 mg/m <sup>3</sup> ; ACGIH TLV: 3.0 mg/m <sup>3</sup>			

**SECTION III      PHYSICAL DATA**

**BOILING RANGE:** -44 deg F - 397 deg F

**VAPOR DENSITY:** Heavier than Air

**EVAPORATION RATE:** Slower than Ether

**% VOLATILE BY VOLUME:** 93.4%

**% SOLIDS BY VOLUME:** 6.581

**% EXEMPT BY VOLUME:** 26.159

**VOC CONTENT:**

EXCLUDING EXEMPT: 5.0321 lb/gal

INCLUDING EXEMPT: 3.716 lb/gal

REDUCTION NOT APPLICABLE.

**SPECIFIC GRAVITY:** .7722

**WEIGHT PER GALLON:** 6.43 lb/gal

**% VOLATILE BY WEIGHT:** 84.68%

**% SOLIDS BY WEIGHT:** 15.319

**% EXEMPT BY WEIGHT:** 26.589

603 g/l

445 g/l

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**SECTION IV FIRE AND EXPLOSION RISKS**

FLASH POINT: -154 deg F

METHOD: TCC

L.E.L.: 1.1

U.E.L.: 12.8

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water fog.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Heat will cause explosion of aerosol container due to increased pressure. Propane is explosive when exposed to flame. Isolate from heat, sparks, electrical equipment and open flame.

**SPECIAL FIREFIGHTING PROCEDURES:** Self-contained breathing apparatus with full facepiece operated in pressure demand or other positive pressure modes.

**SECTION V HEALTH HAZARD DATA****EFFECTS OF OVEREXPOSURE:**

SKIN CONTACT: Slight irritation, dry skin, minor rashes.

EYE CONTACT: Moderate irritation, tearing or blurred vision.

INHALATION: May cause nasal irritation, sneezing and coughing.

INGESTION: Can cause gastrointestinal irritation, vomiting, nausea and diarrhea.

ACUTE: Can cause moderate skin irritation, defatting, dermatitis and tingling sensation.

Can cause moderate eye irritation, redness, tearing and blurred vision.

CHRONIC: May produce liver and kidney damage, persistent coughing, brain damage and may be fatal.

**CARCINOGENICITY:**

This product contains: (Chemical; CAS#)

# Titanium Dioxide 13463-67-7

# Carbon Black 1333-86-4

‡ Indicates a chemical listed by IARC 2B as a possible carcinogen.  
\* May be present in varying quantities depending on color.

See Section XI.

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:** Pre-existing respiratory conditions, Pre-existing skin disorders, liver and kidney disorders and allergies.

**PRIMARY ENTRY ROUTES OF EXPOSURE:** Dermal and Inhalation

**EMERGENCY AND FIRST AID PROCEDURES:**

EYE CONTACT: Flush with large quantities of water for 15 to 30 minutes. Get medical attention.

SKIN CONTACT: Wash exposed area with mild soap and water for 15 minutes. Remove contaminated clothing.

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

INGESTION: &lt; DO NOT INDUCE VOMITING &gt; Keep victim warm and seek immediate medical attention.

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**SECTION VI REACTIVITY DATA**

**STABILITY:** Stable.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Temperatures above 120°F.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Avoid contact with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:** Hazardous decomposition may produce carbon dioxide and/or carbon monoxide.

**SECTION VII SPILL AND LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Refer to other sections in this document to prevent health hazards. Eliminate all sources of ignition. Collect damaged aerosols and use absorbent material to clean-up liquid. Prevent from spreading to ground water. Place material in overpack container for disposal.

**WASTE DISPOSAL METHOD:** "DO NOT INCINERATE." Dispose of in accordance with applicable local, state, and Federal Regulations. Avoid puncture of containers.

**SECTION VIII SAFE HANDLING AND USE INFORMATION**

**RESPIRATORY PROTECTION:** If TLV of the product or any component is exceeded, a NIOSH approved Air Supplied Respirator is advised in absence of environmental control. OSHA Regulations will permit other NIOSH Respirators under specified conditions. (See Your Safety Equipment Supplier) Engineering or administrative controls should be implemented to reduce exposure.

**VENTILATION:** Provide sufficient mechanical (General and/or local exhaust) Ventilation to maintain exposure below the TLV's.

**PROTECTIVE GLOVES:** Wear resistant gloves such as: polyvinyl alcohol coated or polyethylene.

**EYE PROTECTION:** Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

**OTHER PROTECTIVE EQUIPMENT:** Prevent repeated or prolonged skin contact, wear impervious clothing and work shoes.

**HYGIENIC PRACTICES:** Wash hands before eating or using the rest room, smoke in smoking areas only.

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### SECTION IX    SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool place; emptied containers may retain product residuals (Vapors, Liquid, and/or Solids). All precautions given in this data sheet MUST be observed.

**OTHER PRECAUTIONS:** Propane may be narcotic in high concentrations. (OSHA TWA:1000 PPM, IDHL:2000 PPM, 2-1 TABLE). Acetone-OSHA TWA:1000 PPM, ACGIH TWA:750 PPM, ACGIH STEL 1000 PPM. Paint and solvents have been linked to liver abnormalities, kidney damage and lung damage. Follow precautions of this data sheet to prevent exposure.

### SECTION X    SHIPPING INFORMATION

D.O.T. SHIPPING NAME : Consumer Commodity  
 D.O.T. HAZARD CLASS : ORM-D  
 UN/NA NUMBER : None  
 PACKAGING GROUP : R/A  
 D.O.T. LABELS REQUIRED : ORM-D

- \* Air Shipments are subject to specific requirements.
- \* Always consult your carrier before shipping any quantity.

### SECTION XI    OTHER REGULATORY INFORMATION

Toxic Control Act: All components of this product are listed on the EPA TSCA Inventory or exempt from notification.

Canadian Environmental Protection: All of the components of this product are approved and listed on the Canadian Domestic Substance List or exempt from notification requirements.

California Proposition 65:

- \* This product contains (a) chemical(s) known to the State of California to cause cancer.
- + This product contains (a) chemical(s) known to the State of California to cause birth defects or other reproductive harm.

+ n-Methylpyrrolidone	872-50-4
* Phenylethane	100-41-4
+ Toluene	108-66-3

n/a

The information contained in this Material Safety Data Sheet is considered to be true and accurate. Cardinal Industrial Finishes makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. This data is offered solely for the user's consideration, investigation and verification.