

# MATERIAL SAFETY DATA SHEET



## Impression Set "V"

### 1. PRODUCT AND COMPANY NAME

**PRODUCT NAME:** Impression Set "V"  
**DESCRIPTION:** Pre-fit Verification Film  
**MANUFACTURER:** Richmond Aircraft Products  
12801 Ann Street  
Santa Fe Springs, CA 90670

**FOR MORE INFORMATION CALL:** 562-906-3300  
**IN CASE OF EMERGENCY CALL:** 562-906-3300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

PVC film and sheet are classified as articles and do not present and recognized health hazards. This product as do most plastic products contains chemicals which can be hazardous. These chemicals, however, are mixed and bound in plastic *are* not released except under extreme circumstances such as fire. Plasticized PVC film is a mixture of resin, plasticizers, stabilizers, processing aids, modifiers, pigments, inerts and residual solvent.

<u>Ingredient Name</u>	<u>CAS #</u>	<u>% of Ingredient</u>
Cadmium	N/A	<0.2%
Antimony	N/A	<3.5%
Chromates	N/A	<2.0%
Organic Plasticizers	N/A	<65%

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## 3. HAZARD IDENTIFICATION

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### POTENTIAL HEALTH HAZARDS

<b>Route of Entry:</b>	Inhalation, Eye Contact
<b>Target Organs:</b>	N/A
<b>Inhalation:</b>	Vapors and fumes from processing (especially at elevated temperatures) may cause irritation of the nose, throat and upper respiratory tract.
<b>Skin Contact:</b>	Not hazardous
<b>Eye Contact:</b>	Vapors and fumes from processing (especially at elevated temperatures) may cause irritation of the eyes.
<b>Ingestion:</b>	N/A

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## 4. FIRST AID MEASURES

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<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, administer oxygen. If respiration stops give mouth-to mouth resuscitation. Seek medical attention
<b>Skin Contact:</b>	Flush skin thoroughly with soap and cool water for at least five minutes
<b>Eye Contact:</b>	Immediately flush eyes with potable water for at least 15 minutes while forcibly holding eyelids apart. Seek medical attention
<b>Ingestion:</b>	Not deemed to be a normal route of exposure
<b>Note to Physician:</b>	Material has no significant toxic hazard. Hazardous fumes and gases that result from incomplete combustion and decomposition are carbon monoxide. Low-level cyanides and NOx and other unidentified products of hydrocarbon degradation

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## 5. FIRE FIGHTING MEASURES

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### FLAMMABLE PROPERTIES

**Flash Point (Method Used):** N/A

**LEL:** N/A

**UEL:** N/A

**Extinguishing Method:** Dry chemical foam, water fog, or spray

**Special Fire Fighting Procedures:** Wear full protective equipment and NIOSH approved pressure demand self contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Because PVC compounds contain chlorine in the polymer molecule, these materials are difficult to ignite. Like all organic materials, this product is combustible and will burn by application of intense heat. Protect from open flame and maintain proper clearance when using heating devices etc. Static sparking can occur during processing. Flammable materials should be removed from the immediate vicinity or controlled. The use of static suppressants and grounding devices is recommended. When burned, the hazardous decomposition products that will result because of incomplete combustion include carbon monoxide, other unidentified products of hydrocarbon degradation, NOx; low level cyanides and hydrogen chloride

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## 6. ACCIDENTAL RELEASE MEASURES

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Always wear recommended personal protective equipment. Collect and place in a solid waste container.

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## 7. HANDLING AND STORAGE

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**Handling Precautions:** Use normal personal hygiene and good house keeping.

**Storage Requirements:** Store in a cool dry place. Store away from easily ignited chemicals and materials or open flames

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Controls:** Process which generated vapors, dust or fumes should be performed with adequate ventilation. If necessary, use NIOSH approved chemical cartridge respirator.

**Protective Equipment:** Use heavy cotton or insulated gloves to handle hot plastics. Safety glasses with side shields are recommended for all industrial workplaces.

**Exposure Guideline/Other:**

<u>Component</u>	<u>OSHA PEL (mg/m<sup>3</sup>)</u>	<u>ACGIH TLV (mg/m<sup>3</sup>)</u>
Cadmium	0.2	0.05
Antimony	0.5	0.5
Chromates	0.1	0.05
Organic Plasticizers	3	3

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid plastic sheet or film

**Physical Status:** Solid

**Odor:** Slight

**pH:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Boiling Point:** N/A

**Freezing/Melting Point:** 93C (200F)

**Solubility:** Insoluble

**Spec. Grav./Density:** 1.20-1.60

**Percent Volatile:** <2.0%

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## 10. STABILITY AND REACTIVITY

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<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	None known
<b>Materials to avoid (Incompatibility):</b>	N/A
<b>Hazardous Decomposition Products:</b>	hydrogen chloride, carbon monoxide, low level cyanide s and NOx, and other unidentified products of hydrocarbon degradation
<b>Hazardous Polymerization:</b>	Will not occur

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## 11. TOXICOLOGICAL INFORMATION

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**Immediate (Acute) Effects:** Not determined

**Delayed (Sub-chronic and chronic) Effects:**

Cadmium organo-metallic complexes are encapsulated in the polymer matrix. Under traditional post processing conditions, the chronic effects of cadmium exposure include lung, kidney, neurological and carcinogenic disorders. Antimony compounds are generally less toxic than antimony. Principal organs attacked include certain enzyme systems (protein and carbohydrate metabolism), heart, lungs, and the mucous membrane of the respiratory tract. Chronic poisoning presents symptoms of dry throat, nausea, headache, sleeplessness, loss of appetite and dizziness. Liver and kidney degenerative changes are late manifestations. Chromate salts are recognized carcinogens of the lungs, nasal cavity and paranasal sinus. The vapors of the organic plasticizers used to flexibilize the PVC resin are not considered to present a significant health risk when the film is post processed in a traditional manner. Processing in a manner which results in the accumulation of the organic plasticizer vapors is to be avoided by the practice of ventilation procedures that keep the workplace exposure below that specified in your local code. Effects of overexposure to these organic plasticizer vapors include moderate irritation to the skin, eyes and mucous membranes. Because product performance requirements vary, the opportunity exists for plasticizer mixtures of phthalates, adipates, azelates, trimellitates, chlorinated hydrocarbons, soyas, polymerics and phosphates.

The phosphates used do not exhibit cholinesterase depression or other neurotoxicity.

**Other Data:** None

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## 12. ECOLOGICAL INFORMATION

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Material is considered inert and not expected to be biodegradable or toxic.

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## 13. DISPOSAL CONSIDERATIONS

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Dispose of in compliance with Federal, state and local government regulations. Usually is considered an inert packaging material that can be recycled or landfilled.

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## 14. TRANSPORT INFORMATION

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**US DOT Hazard Class:** Not regulated  
**US DOT ID Number:** Not applicable

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

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## 15. REGULATORY INFORMATION

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None

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## 16. OTHER INFORMATION

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**Current Issue Date:** 10/05/2010  
**Previous Issue Date:** 04/07/2008