

MATERIAL SAFETY DATA SHEET



DB-70

1. PRODUCT AND COMPANY NAME

PRODUCT NAME: DB-70

DESCRIPTION: Bagging Film for Debulk and Compaction Operations

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

<u>Ingredient Name</u>	<u>CAS #</u>	<u>% of Ingredient</u>
Cadmium	(CAS 007440-43-9)	<0.2%
Lead	(CAS 007439-92-1)	<5.0%
Antimony	(CAS 007440-36-0)	<3.5%
Chromate	N/A	<2.0%
Organic Plasticizers	N/A	<60%
Aliphatic Hydrocarbons	N/A	<2.5%
Methyl Ethyl Ketone	(CAS 000078-93-3)	<2.5%

MATERIAL SAFETY DATA SHEET



3. HAZARD IDENTIFICATION

POTENTIAL HEALTH HAZARDS

Route of Entry:	Inhalation
Target Organs:	N/A
Inhalation:	This product has no known toxic hazard. Toxic fumes and gases may be produced by combustion or high temperature decomposition.
Skin Contact:	No hazards resulting from the material as supplied
Eye Contact:	No hazards resulting from the material as supplied. May cause mechanical irritation.
Ingestion:	Unlikely route of exposure. No hazards resulting from the material as supplied.
Carcinogenicity:	See Section 11

4. FIRST AID MEASURES

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

MATERIAL SAFETY DATA SHEET



5. FIRE FIGHTING MEASURES

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: 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.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling Precautions: Handle with care. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.

Storage Requirements: Store away from easily ignited chemicals and materials or open flames.

MATERIAL SAFETY DATA SHEET



8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Processes which generate 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>INGREDIENT</u>	<u>PERCENT</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Cadmium	<0.2	0.05 mg/m ³	0.2 mg/m ³
Lead	<5.0	0.15 mg/m ³	0.05 mg/m ³
Antimony	<3.5	0.5 mg/m ³	0.5 mg/m ³
Chromate	<2.0	0.05 mg/m ³	0.1 mg/m ³
Organic Plasticizers	<60	3 mg/m ³	3 mg/m ³
Aliphatic Hydrocarbons	<2.5	2000 mg/m ³	500 ppm
Methyl Ethyl Ketone	<2.5	200 ppm	200 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid plastic sheet or film, slight characteristic odor

Physical Status: Solid

Odor: None

pH: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Boiling Point: N/A

Melting Point: >250F (>121C)

Solubility: Not Soluble

Spec. Grav./Density: 1.20 - 1.60

MATERIAL SAFETY DATA SHEET



10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	N/A
Materials to avoid (Incompatibility):	N/A
Hazardous Decomposition Products:	Hydrogen chloride, carbon monoxide, low level cyanides and NOx, and other unidentified products of hydrocarbon degradation.
Hazardous Polymerization:	Will not occur

MATERIAL SAFETY DATA SHEET



11. TOXICOLOGICAL INFORMATION

Immediate (Acute) Effects:

Vapors and fumes from processing (especially at elevated temperatures) may cause irritation of the eyes, nose, throat and upper respiratory tract.

Delayed (Sub-chronic and chronic) Effects:

The following materials are well encapsulated components of the product and are not believed to constitute an exposure hazard under traditional handling conditions.

Other Data: CADMIUM: Cadmium organo-metallic complexes are encapsulated in the polymer matrix. Under traditional post processing conditions, the opportunity for exposure is not anticipated. The chronic effects of cadmium exposure include lung, kidney, neurological and carcinogenic disorders. LEAD: The early effects of lead poisoning are nonspecific and, except by laboratory testing, are difficult to distinguish from the symptoms of minor seasonal illness. The symptoms are decreased physical fitness, fatigue, sleep disturbance, headache, aching bones and muscles, digestive symptoms (particularly constipation), abdominal pains and decreased appetite. These symptoms are reversible and complete recovery is possible. ANTIMONY: 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. CHROMATES: Chromate salts are recognized carcinogens of the lungs, nasal cavity and paranasal sinus. METHYL ETHYL KETONE: The vapors of ketone solvents are recognized as having narcotic effects and as being irritants to the mucous membranes. None of the ketones has been shown to have a high degree of chronic toxicity. ALIPHATIC HYDROCARBONS: The vapors of petroleum distillates are mild narcotics and mucous membrane irritants. Continuing exposure may produce signs of inebriation, followed by headache or nausea. No chronic systemic effects have been reported from widespread industrial use. ORGANIC PLASTICIZERS: The vapors of the organic plasticizers are not considered to present a significant health risk when the film they are in 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. OTHER: Because product performance requirements vary, the opportunity exists for plasticizer mixtures of phthalates, adipates, azelates, tri-mellitates, chlorinated hydrocarbons, soya, polymeric and phosphates. The phosphates used do not exhibit cholinesterase depression or other neurotoxicity. These plasticized PVC films do not contain di-2-ethyl hexyl phthalate.

MATERIAL SAFETY DATA SHEET



12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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.

15. REGULATORY INFORMATION

None Available

16. OTHER INFORMATION

Current Issue Date: 10/05/2010
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