

MATERIAL SAFETY DATA SHEET

ACCORDANCE TO REGULATION (EC) 1907/2006



VAC-PAK[®] HS 8171-6/66

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

PRODUCT NAME: VAC-PAK[®] HS 8171-6/66

USE OF SUBSTANCE/PREPARATION:

RECOMMENDED USE: Co-Extruded High Temperature Nylon 6/66 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. HAZARDS IDENTIFICATION

INDICATION OF DANGER: This product is an inert nylon film. According to Directives 67/548/EEC and 1999/45/EC, it is not classified as hazardous to humans and the environment. This product is not considered hazardous by the criteria described in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Route of Entry: Skin and eye contact

Target Organs: None

Inhalation: Not a route of exposure under normal handling and usage.

Skin Contact: Not considered hazardous under normal handling and usage.

Eye Contact: Not considered hazardous. May cause mechanical irritation if film comes into contact with the eye.

Ingestion: Not a route of exposure. Not considered hazardous.

Carcinogenic Status: Not considered carcinogenic by NTP, IARC, and OSHA

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3. HAZARD IDENTIFICATION COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS: None - Product is an inert nylon film and poses no danger in its current form.

<u>Ingredient Name</u>	<u>CAS #</u>	<u>% of Ingredient</u>
Poly[imino(1-oxo-1,6-hexanediy)] "Nylon 6"	(CAS 25038-54-4)	48-50%
NYLON 6/66	(CAS 24993-04-2)	48-50%
Colorants	(CAS Not Available)	0-1%
Caprolactam	(CAS 105-60-2)	0-1%

Components are not classified as dangerous according to Directive 1999/45/EC. Quantities of listed compounds contained in this product are not reportable under the article exemption since they do not release or otherwise result in exposure of a hazardous chemical under normal conditions of use. Product is a solid film that requires no preparation and causes no health or environmental hazards within the meaning of Directive 67/548/EEC.

4. FIRST AID MEASURES

Inhalation:	Not an expected route of entry during normal handling and use. Remove person to fresh air and seek medical attention if adverse symptoms appear.
Skin Contact:	Not an expected route of entry during normal handling and use.
Eye Contact:	Not an expected route of entry during normal handling and use.
Ingestion:	Obtain immediate medical attention.
Advice to Physicians:	Treat symptomatically.

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5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point (Method Used): N/A

LEL: N/A

UEL: N/A

Extinguishing Method: Carbon dioxide, dry chemical, foam, water or other agents as appropriate for materials in surrounding fire.

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: Products of combustion may include oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

No specific measure necessary. Prevent material from entering drains or water courses.

7. HANDLING AND STORAGE

Handling Precautions: Use normal personal hygiene and good housekeeping.

Storage Requirements: Store in a cool, dry area, away from sources of ignition.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: No specific measures necessary.
Environmental Exposure Control: No specific measures necessary.
Respiratory Protection: No specific measures necessary.
Hand Protection: No specific measures necessary.
Eye Protection: No specific measures necessary.
Use safety glasses if necessary.
Skin Protection: No specific measures necessary.

OCCUPATIONAL EXPOSURE STANDARDS:

<u>INGREDIENT</u> <u>NAME</u>	<u>Guideline</u>	<u>Form of Exposure</u>	<u>Concentration</u>
Caprolactam	ACGIH TWA	Inhalable fraction and vapor	5 mg/m ³
	NIOSH REL	Vapor	0.22 ppm, 1 mg/m ³
	NIOSH REL	Dust	1 mg/m ³
	NIOSH STEL	Vapor	0.66 ppm, 3 mg/m ³
	NIOSH STEL	Dust	3 mg/m ³
	US CA OEL TWA	Vapor	5 ppm, 20 mg/m ³
	PEL		
	US CA OEL TWA	Dust	1 mg/m ³
	PEL		
	US CA OEL STEL	Vapor	10 ppm, 40 mg/m ³
	US CA OEL STEL	Dust	3 mg/m ³
	OSHA Z1A TWA	Dust	1 mg/m ³
	OSHA Z1A TWA	Vapor	5 ppm, 20 mg/m ³
OSHA Z1A STEL	Vapor	10 ppm, 40 mg/m ³	
OSHA Z1A STEL	Dust	3 mg/m ³	

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear and colored plastic film
Physical Status:	Solid
Odor:	No odor
pH:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Boiling Point:	N/A
Freezing/Melting Point:	>419F-482°F (215C-250°C)
Solubility:	Insoluble
Spec. Grav./Density:	1.13-1.14 g/cm ³

10. STABILITY AND REACTIVITY

Stability:	Normally Stable
Conditions to avoid:	Avoid exposure to open flame or temperatures exceeding recommended processing temperatures. The maximum temperature to which the film can be exposed will vary with exposure (dwell) time. RAP should be contacted if questions arise concerning specific processing conditions.
Materials to avoid (Incompatibility):	Strong oxidizers, acids, alkalis, halogens, halogenated hydrocarbons
Hazardous Decomposition Products:	Thermal decomposition products may include caprolactam, ammonia, hydrogen cyanide, carbon monoxide, carbon dioxide and combustion by-products (oxidized and non-oxidized hydrocarbons).
Hazardous Polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not determined
Chronic Toxicity / Carcinogenicity Effects:	Not expected to cause adverse health effects.
Genotoxicity:	Not expected to cause mutagenic effects.
Reproductive / Developmental Toxicity:	Not expected to cause adverse reproductive effects.
Other Data:	N/A

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12. ECOLOGICAL INFORMATION

Product is not classified as hazardous according to Directive 1999/45/EC. No relevant studies identified.

Exotoxicity:	No relevant studies identified.
Mobility:	No relevant studies identified.
Persistence and degradability:	No relevant studies identified.
Bioaccumulative Potential:	No relevant studies identified.
Other Adverse Effects:	N/A

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

No special precautions to be aware of under 1907/2006/EC.

US DOT Hazard Class:	Not regulated
US DOT ID Number:	Not applicable
UN Proper Shipping Name:	None
UN Class:	None
UN Packaging Group:	None
Marine Pollutant:	Not applicable
Classification for AIR Transportation (IATA):	Consult current IATA regulations prior to shipping by air.

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15. REGULATORY INFORMATION

Quantities of listed components contained in this product are not reportable under article exemption according to Directives 67/548/EEC and 1999/45/EC.

Toxic Substance Control Act (TSCA)

TSCA Inventory Status: N/A
Other TSCA Issues: None

SARA Title III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

Ingredient Name

No ingredients listed in this section.

SARA/CERCLA RO (lb) SARA EHS TPO (lb)

Section 311 Hazard Class: None.

The following ingredients are SARA 313 "Toxic Chemicals". CAS numbers and weight percents are found in Section 2.

Ingredient Name

No ingredients listed in this section.

Comment

State Right-To-Know

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

Ingredient Name

Caprolactam (105-60-2)

Weight %

N/A

Comment

Fla. Toxic Subs. Right-to-Know
Ill. Toxic Subs. Disclosure to Emp. Act
La. Right-to-Know Reporting List
Mass. Right-to-Know Substance List
N. J. Right-to-Know Substances
Pa. Right-to-Know Haz. Substances
R. I. Haz. Subs. Right-to-Know Act

California Prop. 65 : On This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

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Additional Regulatory Information:

This product is not intended to be used in any application which places the product in direct contact with the human body, or in other FDA governed applications, unless specifically designated otherwise in written material supplied by RAP to the purchaser.

WHMIS Classification (Canada):

Not a controlled substance. (Considered to be a manufactured article.)

Foreign Inventory Status:

All base monomers and other components are listed on the EINECS Inventory.

16. OTHER INFORMATION

Prepared By:

Engineering and Quality Assurance

Bibliography:

- Directive EEC 67/548 and following adaptations
- Directive 1999/45/EC, as amended
- Directive 76/769/EEC and following amendments
- Directive 2001/58/EC
- EINECS/ELINCS
- 1907/2006/EC

Current Issue Date: 01/03/12

Previous Issue Date: 10/05/10