



Material Safety Data Sheet

Revision: -
Issue Date: August 20, 2002
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PRODUCT IDENTITIES

HiTak TufSeal™ ; Non-Metallic Frame

HT3000

SECTION I. MANUFACTURER'S INFORMATION

Manufacturer's Name	Av-DEC - Aviation Devices & Electronic Components, L.L.C.	Emergency Telephone Number	817-738-9161
Address	1810 Mony Street Fort Worth, TX 76102	Telephone Number for Information	817-738-9161
		Facsimile Telephone Number	817-738-9163

SECTION II. HAZARDOUS INGREDIENTS IDENTIFICATION

Components	OSHA PEL	ACGIH TLV
1. Non-metallic Frame	NA	5 mg/m ³ (as dust)
2. Non-metallic Backing	15 mg/m ³ (as dust)	NA

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (°F)	NA	Specific Gravity(H₂O = 1)	1.21 g/ml	Phase Transition Temp (see Section IX)	> 160 °C
Vapor Pressure (mm Hg)	NA	Vapor Density (Air = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	0
Solubility in Water	Not Soluble	Appearance	Gray & White (HT3000)	Odor	No Odor

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point	>182 °C	Extinguishing Media	Special Fire Fighting	Unusual Fire and
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Flammable Limits	LEL - NA	Carbon dioxide; Dry chemical; Foam; water.	Procedures	Explosion Hazards
	UEL - NA		Use self-contained breathing apparatus.	Decomposition products may be toxic.

SECTION V. REACTIVITY DATA

Stability	Stable <input checked="" type="checkbox"/> Unstable	Hazardous Decomposition or Byproducts
Incompatibility	Bases, alcohols, moisture and/or oxidizers	Carbon dioxide, carbon monoxide, aldehydes, nitrogen oxides and/or organics.
Hazardous Polymerization	May Occur Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid Excessive heat

SECTION VI. HEALTH HAZARD DATA

Entry Routes:	Inhale Low	Skin Low	Ingestion Low
Health Hazard (Acute and Chronic)	Acute exposure may cause skin, eye and mucous membrane irritation. Acute and/or chronic exposure may cause allergic sensitization.		
Carcinogenicity	This product contains or may contain chemicals which are listed by the following agencies as carcinogenic: NTP: None; IARC: None; OSHA: None.		
Signs & Symptoms	Skin, eye, mucous membrane irritation, allergic response	Medical Conditions generally aggravated by Exposure	Allergies, Pulmonary disorder
Emergency First Aide	<p>SKIN - flush area with water for at least 15 minutes with mild soap and water rinse. Remove all contaminated clothing. If irritation or redness develops, consult an occupational physician.</p> <p>EYE - immediately flush eyes with water for 15 minutes. Hold eyes open while flushing. Do not add any other solution(s) to eye except water. Contact an eye physician promptly.</p> <p>INHALATION - Remove to fresh air immediately. If breathing is difficult, give oxygen. If victim is not breathing, perform artificial respiration.</p> <p>INGESTION - If victim is conscious, give water or diluted milk. Do not induce vomiting. Keep head below hips. Repeat fluids. Call an occupational physician. Never give fluids to an unconscious person, or someone convulsing.</p>		

SECTION VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is Released or Spilled
Accidental release or spillage is not likely to occur due to the physical nature of this product. Avoid skin contact with sealant. Place all waste materials in a sealable container for appropriate disposal.
Waste Disposal Method
Follow approved Federal, State and Local regulations.
Precautions to be taken in Handling and Storage

CAUTION: MAY CAUSE EYE IRRITATION. Avoid contact with skin, eyes or clothing. Do not discard to open water.

Other Precautions

Store materials in a cool, well-ventilated area.

SECTION VIII. CONTROL MEASURES

Respiratory Protection	Typically not necessary. Use only NIOSH approved respiratory protection for organic vapors. NIOSH respiratory protection for dust may be required if the product is mechanically manipulated (i.e., grinding, sawing, drilling, etc.). However, due to the physical nature of the product, mechanical manipulation may be difficult.				
Ventilation	Local Exhaust	Not necessary under normal use conditions.	Mechanical (General)	Will be adequate for the majority of user applications.	
Protective Gloves	Not necessary under normal use conditions. Refer to Section IX.	Eye Protection	Not necessary under normal use conditions. Refer to Section IX	Special	Barrier creams suggested.
Other Pro-Clo or Equipment	Additional protective clothing is not necessary under normal use conditions. Safety shower/eye wash and fire extinguisher are standard safety precautions. Refer to Section IX.				
Work & Hygienic Practices	Good housekeeping and personal hygiene are critical. Wash face, neck, hands and arms before eating, drinking, smoking or using hygiene/make-up products. Separately wash contaminated clothing before reuse.				

SECTION IX. OTHER INFORMATION

The product is not conducive to an accurate measurement of boiling or melting point temperatures. Phase Transition Temperature is the temperature at which, this product, changes from a stable, gelled material to a material which is no longer usable in its suggested form.

Additional Control Measures: Protective gloves and other protective clothing are recommended for persons who exhibit symptoms of skin sensitization or possible allergic reaction. Protective clothing should be impervious to the components (e.g., polyethylene). Eye protection must be worn when the potential for eye injury exists.

The information contained in this MSDS is based on data available to Aviation Devices and is believed to be reliable. No guarantee is implied or expressed regarding the accuracy of this information or the use of the product since the conditions for use are beyond Aviation Devices' and the manufacturer's control. Nothing contained herein should be construed as a recommendation to use this product in conflict with existing patents covering any material or its use.