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## Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

# U.S. Department of Labor Occupational Safety and Health Administration

(Non-Mandatory Form) Form Approved OMB No. 1218-0072

Manufacturer's Name : Heelift Suspension Boots DM Systems, Inc. 1316 Sherman Ave. Evanston, IL 60201	Emergency Telephone Number DM Systems, Inc : 847-328-9541
Manufacturer's Name: Foam product in Heelift Suspension Boots Future Foam Inc. 1610 Ave. North Council Bluffs, Iowa 51501	
	Date Prepared January 13, 2003

### Section II - Hazard Ingredients/Identity Information

Flexible Polyurethane Foam CASNo. : not established This material is not classified as hazardous.	Chemical Family: Polyether urethane polymer	Synonyms: FPF, PUF, combustion modified, antistatic high resiliency, slow recovery.	
Vapor Pressure (mm Hg.) : Not applicable	Melting Point : Not applicable		
Boiling Point : Not applicable	Evaporation Rate (Butyl Acetate = 1)		
Testing results on HeelLift Boot			
ASTM D 3574 – Test A – Thickness			
1.49 inches			
ASTM D 3574 - Test A - Density			
1.9 +/- 0.1 LB			
ASTM D 3574 – Test H – Resilience (Ball)	Test		
50% Typical			
ASTM D 3574 – Test B2 – Indentation Fore	ce Deflection		
35 +/- 3 lbs.			
ASTM D 3574 – Test D – Compression Set			2/777
E-512188 C-10831- E-580948 C-9932	127009987 I-	.647066 C-108	25
E-5809/e8 C-9932	2 I-(	10638 C-1083	12700496
T-580948 C-9932 E-580949 C-9949 E-642471 C-9475	<u>Т-6</u>	513492 C-10831	727009970

Eyes Contact: Dusts	Inhalation: Dusts may	Skin Contact:	Ingestion: Essentially non- toxic.
may cause mechanical	cause irritation to the	Rubbing may cause	
irritation.	respiratory tract. When	mechanical irritation.	
	heated to	Skin absorption not	
	decomposition, flumes	expected to be	
[	are toxic.	significant under	

**Health Hazards (Acute and Chronic) Skin**: Not considered a primary skin irritant. **Eye:** Not considered an eye irritant. **Ingestion:** Acute oral LD 50 for an aqueous extract for rats was>15,000 mg/Kg.

Signs and Symptoms of Exposure: There are no specific exposure limits established for this product. Treat dusts as Particulates Not otherwise Classified (PNOC);

- ACGIH TLV 10 mg/M3 as inhalable fraction
- 3 mg/M3 as repairable fraction OSHA PEL 50 mppcf or 15 mg/M3 as total dust
  - 15 mppcf or 5 mg/M3 as repairable fraction

mppcf= million particles per cubic foot( of air) mg/M3= milligrams of substance per cubic meter of air.

#### **Medical Conditions**

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Generally Aggravated by Exposure: There are no known health hazards associated with this material when used as designed. It is recommended employees wash thoroughly after handling the material. Wash before and eating, smoking, drinking or using restroom facilities. Avoid breathing dusts.

#### **Emergency and First Aid Procedures:**

Skin: No special treatment required. May cause mechanical irritation. Vacuum or brush dusts form skin. Eyes: May cause mechanical irritation. Open eyelids and hold back while flushing with water for at least 15 minutes. Seek medical attention.

Ingestion: No special treatment required.

Inhalation: Remove victim to fresh air. If victim has stopped berthing, administer artificial respiration and seek immediate medical attention.

#### Section VII - Transport information

This material used in the heelift boot is not hazardous as defined by 49 CFR 17 Proper Shipping Name: Heelift Suspension Boots	/2.101
UPN: Hazard Class Number: Not applicable Packing Group: Not applicable Marine Pollutant: Marine Pollutants regulations not applicable to this materia Transport Canada Transportation of Dangerous Goods Regulations: Not of	•
Other Information: This information is furnished in good faith, withour warranty, expressed or	* U.S.G.P.O.: 1986 - 491 - 529/45775

This information is furnished in good faith, withour warranty, expressed or	529/45775
implied, except that it is accurate to the best knowledge of DM Systems, Inc	
The information contained in this document is related on to the specific material	
designated herein. DM Systems, Inc., assumes no liability for the accuracy or	
completeness of the information contained herein.	

Compression Set 90% 10 % max Compression Modules 1.9	
ASTM D 3574 – Test E – Tension Test	
Tension Strength: 12.1 psi Elongation: 119%	
ASTM D 3574 – Test F – Tear Resistance Test	
Tear Strength: 1.0 lbs inch min	•
ASTM D 3574 – Test C – Compression Force Defi	ection @ 50%
Compressed Load @ 50%: 0.396 psi	
CALIFORNIA TECHNICAL BULLETIN 117 – S	ection A – Part 1 – Resilient Cellular Materials
Meets or exceeds FR additive will not dissipate with	washing of foam product.
Regulatory information: SARA: 302 304 CERCLA RCRA (TPO) (RQ) RQ 313 Code	CAA 112® TO
no no no no no	e no
Clean Water Act: The product is not lis	ontain any Class 1 or Class 2 Ozone depletors. sted as a Hazardous Substance under the CWA. icals listed as priority or toxic pollutants under
Appearance and Odor: Flexible cellular solid. N	May be any color. Negligible for odor.
Section IV - Fire and Explosion Haza	rd Data
Auto ignition Temperature (°F) : Not established Extinguishing Media: Water, foam, dry chemical, carbon dioxide.	Flammable Limits (UEL/LEL): Not established Special Fire Fighting Procedures: Fire fighter must wear NIOSH approved full-faced positive pressure self-contained preathing apparatus and bunker gear. Unusual fire and Explosive Hazards: Once ignited foam can burn with rapid flame spread producing intense heat and lense smoke and toxic gases (primarily oxides of carbon and nitrogen). Burning foam may melt into pools or droplets of purning liquid. Foam may smolder and reignite. Foam dusts
solid.	can produce potentially explosive atmospheres.

OSHA 174, Sept. 1985

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#### **TESTING SUMMARY**

CLIENT: DM Systems Inc. 1316 Sherman Avenue Evansion IL 60201

**REPORT NUMBER: 23402R** 

LAB TEST NUMBER: 1388-4000

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DATE: December 31, 2002

#### SAMPLE ID: Heelift® Suspension Boot

TEST RESULTS:

ASTM D 3574 - Test A - Thickness	1.49 inches
ASTM D 3574 - Test A - Weight	7.99 grams
ASTM D 3574 - Test A - Density	1.28 lbs/ft <sup>3</sup>
ASTM D 3574 - Test H - Resilience (Ball) Test	35.5%
ASTM D 3574 - Test B2 - Identation Force Deflection	0.2972 psi
ASTM D 3574 – Test D – Compression Set	Initial Thickness: 1.459 inches Final Thickness: 1.421 inches Compression Set: 2.6%
ASTM D 3574 - Test E - Tension Test	Tension Strength: 12.1 psi Elongation: 119%
ASTM D 3574 - Test F - Tear Resistance Test	Tear Strength: 355 newtons/meter (24.4 lbs/ft)
ASTM D 3574 - Test C - Compression Force Deflection @ 50%	Compressed Load @ 50%: 0.396 ps
CALIFORNIA TECHNICAL BULLETIN \$17 - Section A - Part 3 - Resilient Cellular Materials RE: 4/1/03	Paxs

Testing Services, Inc.

Erle Miles, President

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