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MATERIAL SAFETY DATA SHEET

For chemicals, coatings, and related materials

DATE PREPARED: 9/19/2012

Foam Supplies, Inc.
4387 North Rider Trail
Earth City, MO 63045

Non-Emergency Phone Number

314-344-3330 - FSI

24-Hour Emergency Phone Number

800-424-9300 - CHEMTREC

1. Product: 87a34-50-1.6-SP5PUF1
87a34-50-1.8-SP5PUF1
87a34-85-1.6-SP5PUF1
87a34-85-1.8-SP5PUF1

87a34-85-2.0-SP
87a34-130-1.6-SP5PUF1
87a34-130-1.8-SP5PUF1
87a34-130-2.3-SP

Class: Foam Polyurethane Base

H.M.I.S. Hazard Codes

Health: 1 Slight

Flammability: 1 Slight

Reactivity: 0 Minimal

Personal Protective Equipment: X

2. Hazardous Ingredients

Ingredient	: Percent	: C. A. S.	: Vapor Pressure
Material Description	: By Weight	: Registry No.	: PSIA @ 25°C
Ethane, Tetrafluoro	5-15	811-97-2	N/A
Amine Catalyst	0-2	Proprietary	N/A
Oxyethylated Aliphatic Amine	0-15	62476-52-2	N/A

3. Health Hazard Data

Effects of Overexposure:

Threshold Limit Values: See Section 11

Liquid contact may cause eye irritation. Vapors may be mildly irritating to eyes.

Repeated or prolonged skin contact may cause irritation and drying.

Excessive inhalation of tetrafluoroethane vapors can cause respiratory irritation, dizziness, etc., and even unconsciousness or asphyxiation. Overexposure to tetrafluoroethane can cause cardiac sensitization to epinephrine.

4. First Aid

Emergency and First Aid Procedures:

Flush eyes with large amounts of water for at least 15 minutes.

Get medical attention.

Wash skin thoroughly with large amounts of soap and water.

Consult a physician if irritation develops or persists.

Remove contaminated clothing and wash before re-use.

If affected by vapors, remove patient to fresh air and get medical attention. Give oxygen or artificial respiration if necessary. Do not give stimulants. Epinephrine and similar drugs may adversely affect the heart due to a possible risk of eliciting cardiac dysrhythmias.

If swallowed, do not induce vomiting. Get medical attention immediately.

The hazard of aspirating material into the lungs is greater than the hazard associated with allowing material to progress through the intestinal tract.

Carcinogenic According to NTP, IARC, or OSHA

This product does not contain ingredients listed by NTP, IARC, or OSHA.

5. Fire and Explosion Hazard Data

Flash Point: > 300.0 °F

Explosive Limits: LEL UEL (%V in air)

(Method Used) Pensky-Martens

87a34-50-1.6-SP5PUF1 / 87a34-50-1.8-SP5PUF1 / 87a34-85-1.6-SP5PUF1 / 87a34-85-1.8-SP5PUF1 /
87a34-85-2.0-SP / 87a34-85-130-1.6-SP5PUF1 / 87a34-85-130-1.8-SP5PUF1 / 87a34-85-130-2.3-SP

Flammability Classification:

OSHA: Combustible Liquid - Class IIIB

DOT: Not regulated for flammability

Extinguishing Media:

Foam, alcohol foam, carbon dioxide, dry chemical, water fog.

Special Fire Fighting Procedures:

Fire fighters should wear a self-contained breathing apparatus with full facepiece operated in a positive pressure mode.

Fire fighters should wear full protective clothing to guard against exposure to toxic and irritating fumes.

Spray containers exposed to fire and heat with water to keep cool.

Unusual Fire and Explosion Hazards:

Do not weld or use a cutting torch on or near drums, even if empty.

Empty drums contain residual material which may decompose to emit toxic or irritating fumes if burned.

6. Spill or Leak Procedures

Steps for Material Spillage:

Properly protected personnel should contain the spill & soak it up with absorbent material. Shovel the absorbed material into containers for disposal.

Waste Disposal Methods:

Dispose of according to federal, state, and local regulations.

Empty containers retain product residue and are subject to all of the handling instructions on this sheet.

7. Special Precautions

Handling and Storage Precautions:

Avoid unnecessary skin contact with this product.

Avoid breathing vapors.

Provide adequate ventilation during use.

Wear an appropriate respirator during and after use unless airborne concentrations are known to be below the TLV.

Other Precautions:

Store in cool, dry location.

Keep containers tightly sealed and upright when not in use.

8. Special Protection Information

Respiratory Protection:

Under normal conditions, respiratory protection is not necessary. However, if the TLV for the solvent is exceeded, use a NIOSH/MSHA approved organic vapors mask. If the TLV is greatly exceeded, or in confined or poorly ventilated areas, use a positive pressure, air supplied or self contained breathing apparatus.

Ventilation:

Mechanical or local exhaust is required to keep concentrations below the TLV and/or to prevent any accumulation of vapors.

Vapors are heavier than air and will collect in low areas such as pits or tanks, reducing the oxygen available for breathing. NEVER ENTER AN AREA OF UNKNOWN CONCENTRATION WITHOUT FULL RESPIRATORY PROTECTION!

Protective Gloves:

Chemical resistant gloves.

Eye protection:

Chemical safety glasses or splash goggles to prevent eye contact.

Do not wear contact lenses.

Other Protective Equipment:

If needed to prevent unnecessary skin contact.

Primary Routes of Entry:

Skin contact

Inhalation

9. Physical Data

Boiling Range:	Not available	Freezing Point:	N/A
Vapor Pressure:	< 25 psia at 25 °C	Vapor Density:	Heavier than air
Specific Gravity:	01.16 at 25 °C	H₂O Soluble:	Negligible (< 0.1%)
Evaporation Rate:	Faster (relative to n-butyl acetate)	% Volatile by Volume:	<15%

Appearance and Odor: Clear to dark amber liquid; faint ethereal odor

10. Reactivity Data

Stability: Stable

Stability Conditions to Avoid:
Open flames, welding arcs, or other high temperature sources can induce thermal decomposition.

Incompatibility (Materials to Avoid Contact with):
Avoid prolonged contact with, or storage in, aluminum, other alkali or alkaline earth metals such as powdered Zn, Mg, Na, K, Ca, Be, or their alloys.

Hazardous Decomposition Products:
CO, CO₂ Hydrogen chloride and/or hydrogen fluoride
Traces of phosphorous oxides
Traces of carbonyl halides such as phosgene

Hazardous Polymerization: Will not occur

Polymerization Conditions to Avoid: None

11. Toxicological Information

Ingredient Material Description	: PEL : mg/m3	: TLV (twa) : mg/m3	: LD50(mg/kg) : (rat) : ORAL :	: LC50 (ppm)	
				: (rbt) DERMAL	: (rat) : INHAL
Ethane, Tetrafluoro		1000	N/A	N/A	N/A
Amine Catalyst	1-3 ppm	N/A	425mg/kg		
Oxyethylated Aliphatic Amine	N/A	N/A	>5g/kg	>2g/kg	>200mg/l

12. Ecological Information

Not Available

13. Disposal Considerations (See Section 15 for Regulatory Information)

This product contains a substance that may be toxic to fish and aquatic organisms. Do not release to water. DO NOT PUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Foam Supplies Inc. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCTS AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information on Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destructive device.

14. Transport Information

DOT CLASSIFICATION/DESCRIPTION

For DOT regulatory information, if required, consult transportation regulations, product shipping papers, or your FSI representative.

CANADIAN TDG INFORMATION

For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your FSI representative.

15. Regulatory Information

(Not meant to be all inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD sheet for health and safety information.

U. S. Regulations

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR.

Part 372:

CHEMICAL NAME	CAS Number	CONCENTRATION
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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

A delayed health hazard

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are on the TSCA Section 8 (b) Inventory.

Ingredients subject to TSCA 12(b)

Chemical

Relevant Section

Also Regulated by:

CANADIAN REGULATIONS

The Workplace Hazardous Materials Information System (W.H.M.I.S.) Classifications for this product is:

D1B

D2A

D2B

16. Other information

The reaction of polyols and isocyanates generate heat. Contact of the reaction materials with skin or eyes can cause severe burns and may be difficult to remove from the affected areas. Immediately wash the affected areas with plenty of water and seek medical assistance.

Revision Indicator Section 1,2,3, 11, and 15.

FSI Document No. 20100726

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Foam Supplies, Inc. makes no warranty with respect thereto and disclaims any liability from reliance thereon.