

MATERIAL SAFETY DATA SHEET

SECTION 1 COMPANY AND PRODUCT IDENTITY **DATE ISSUED: 06/01/2001** **DATE REVISED: 6/7/2004**

Product Name: Tramfloc® 1133
Chemical Name: Polyether Polyol.
DOT Hazard Class: Non-hazardous
DOT Shipping Name: N/A
WHIMIS CLASS: D2B

Company: Tramfloc, Inc.
P. O. Box 350, Tempe, AZ 85280
Phone: 480-491-6895
24-HOUR EMERGENCY PHONE: CHEMTREC (800) 424-9300

H. M. I. S.

		HAZARD RATING
1	HEALTH	4= Extreme 3= High 2= Moderate 1= Slight 0= Insignificant
0	FIRE	
0	REACTIVITY	
B	PERSONAL PROTECTION	
A= Goggles B= Goggles & Gloves C= Goggles, Gloves & Apron		

SECTION 2 CHEMICAL INGREDIENTS

Chemical Identity	CAS Number	%	PEL	TLV	LD50	LC50
Oxirane, methyl-, polymer with oxirane	9003-11-6	100	N/E	N/E	N/D	N/D

This product does not contain components that are subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

SECTION 3 PHYSICAL DATA

Color: Clear	Boiling Point: >300° F	Specific Gravity @ 25° C: 1.017
Odor: Polyol	Freezing Point: <32° F	pH (as is): 5 - 8
Physical State: Liquid	Vapor Pressure @ 25° C: <0.1 mm of Hg	VOC Content: 0%
Solubility in Water: Dispersible	Vapor Density (Air=1): >1	Weight per Gallon: 8.48 lbs. / gal.

SECTION 4 FIRE AND EXPLOSION HAZARDS DATA

Flash Point (Method): >300° F (COC)	Auto ignition Temperature: N/A	Extinguishing Media: Dry chemical or CO2
Flammable Limits: N/A	LEL: N/A UEL: N/A	Special Fire Fighting Procedures: None.
Hazardous Combustion Products: N/A		Unusual Fire & Explosion Hazards: None

SECTION 5 REACTIVITY DATA

Stability: Stable. **Hazardous Polymerization:** None likely. **Incompatibility:** Strong alkalis and oxidizing materials.
Hazardous Decomposition Products: Carbon Oxides

SECTION 6 TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion **Toxicologically Synergistic Products:** None Known
Sensitization: No **Medical Conditions Aggravated by Exposure:** None Known

EFFECTS OF OVEREXPOSURE (Acute and / or Chronic)	Carcinogenic Effects: Not Available.
Eyes: Direct contact may cause irritation.	Mutagenic Effects: Not Available.
Skin: Prolonged or repeated contact may cause severe irritation.	Teratogenic effect: Not Available.
Ingestion: May cause gastrointestinal irritation, nausea, and diarrhea.	Reproductive Toxicity: Not Available.
Inhalation: No effects.	

SECTION 7 PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None required with adequate ventilation.	Ventilation: Local Exhaust: N/A Mechanical: N/A
Protective Gloves: Rubber to protect sensitive skin.	Eye Protection: As required to prevent splashing into eyes.
Protective Clothing: As needed to prevent wetting of clothes.	Hygienic Practices: Wash thoroughly after handling.
Storage Requirements: Store between 35° and 100° F.	
Action in Case of Release or Spill: Soak up with absorbent materials and remove to containers.	
Waste Disposal Method: Dispose of in accordance with local, state, and federal EPA regulations.	

SECTION 8 EMERGENCY FIRST AID PROCEDURES

Eyes: Flush immediately with water for 15 minutes. If irritation persists, get medical attention.
Skin: Wash with soap and water.
Ingestion: Give victim 2 -3 large glasses of water. Consult poison control center immediately.
Inhalation: No effects.
Note to Physician: No additional information.

SECTION 9A OTHER INFORMATION

TSCA: This product, or components, are listed or are exempt from the Toxic Substance Control Act Chemical Substance Inventory. The information herein is given in good faith, but no warranty, express or implied, is made.

SECTION 9B PHYSICAL AND CHEMICAL PROPERTIES

Appearance: colorless liquid with a mild odor
Vapor Density (Air=1) > 1. **Vapor Pressure @ 25° C:** Low.
Boiling Point: Decomposes before boiling.
Solubility in Water: Insoluble.
Specific Gravity: @ 25° C: 1.017.

SECTION 10 STABILITY AND REACTIVITY DATA

Chemical Stability: Stable under recommended storage conditions.
Incompatibility with Other Products: Avoid contact with strong oxidants, isocyanates and acids. Polyols and isocyanates react exothermically.
Hazardous Decomposition Products: Are dependent upon temperature, air, and presence of other materials. Hazardous decomposition products may include aldehydes, ketones, organic acids, and polymer fragments.
Hazardous Polymerization: Will not occur by itself.

SECTION 11 TOXICOLOGICAL INFORMATION

Skin: For this family of materials, the dermal LD50 in rabbits is > 10,000 mg/kg.
Oral: For this family of materials, the oral LD50 in rats is > 4,000 mg/kg.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Fate Movement and Partitioning: No bioconcentration is expected because of the relatively high molecular weight.
 Degradation and Persistence: Biodegradation under aerobic laboratory conditions is below detectable limits. COD is 2.14 p/p.
 Ecotoxicity: Material is practically non-toxic to fish on an acute basis. LC50 is > 100 mg/L.

SECTION 13 DISPOSAL CONSIDERATIONS

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA it is the responsibility of the product user to determine at the time of disposal, whether the product meets the RCRA criteria for hazardous waste. This is because the products applications, uses, mixtures, processes, etc. may render the resulting material hazardous.

RCRA HAZARD CLASS (40 CFR 261): Not Listed.

SECTION 14 TRANSPORTATION INFORMATION, DOT

Proper Shipping Name: Not regulated.
 Hazard Class: Not regulated.
 Identification Number: Not regulated.
 Packaging Group: Not regulated.
 Label Required: Not regulated.

SECTION 15 REGULATORY INFORMATION

Proper Shipping Name: Not regulated.

SARA TITLE III: 302/304 Extremely Hazardous Substances:

Chemical Name	CAS Number	Range in %	TPQ	RQ
Residual ethylene oxide (typical)	75-21-8	0.001	1000	10
Residual propylene oxide (typical)	75-56-9	0.001	10000	100

Section 311 Hazardous Categorization:
 Acute (X) Chronic () Fire () Pressure () Reactive ()
 313 Toxic Chemical : Chemical Name: None.

CERCLA 102(a) / DOT HAZARDOUS SUBSTANCES:

Chemical Name	CAS Number	Range in %	TPQ	RQ
Residual ethylene oxide (typical)	75-21-8	0.001	1000	10
Residual propylene oxide (typical)	75-56-9	0.001	10000	100

STATES RIGHT-TO-KNOW REGULATIONS:
 Chemical name State Right-To-Know : None

CALIFORNIA PROPOSITION 65:

The following detectable components of this product are substances, or belong to classes of substances, known in the state of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS#
Residual ethylene oxide (typical)	75-21-8
Residual propylene oxide (typical)	75-56-9

INTERNATIONAL REGULATIONS:

TSCA Inventory status: This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance inventory.

WHMIS Classification: Not regulated.

Canadian Inventory Status: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL)

EINECS Inventory Status: Not determined.

Australian Inventory Status: This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS)

Japan Inventory Status: Not determined

SECTION 16 OTHER INFORMATION

Trace quantities of ethylene oxide (EO) may be present in this product. While these trace quantities could accumulate in the headspace areas of storage and transport vessels, they are not expected to create a condition which will result in (EO) concentrations greater than 0.5 ppm (8 hour TWA) in the breathing zone of the workplace for appropriate applications. OSHA has established a permissible exposure limit of 1.0 ppm 8 hour TWA for EO. (29 CFR 1910.1047)

The information contained herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, Tramfloc, Inc. makes no guarantee for results obtained, and assumes no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state, and local laws and regulations.