

MATERIAL SAFETY DATA SHEET

U.S. DEPARTMENT OF LABOR

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)	Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.
Techno Adhesive #99 Hardner	

Section I

Manufacturer's name Techno Adhesives Company	Emergency Telephone Number (800) 432-0107
Address (Number, Street, City, State and ZIP Code)	Telephone Number for Information (800) 432-0107
12113 Mosteller Road	Date Prepared 9/28/2005
Cincinnati, OH 45241	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
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Polyethylene Polyamine & Polyethylene Polyamine Adduct With Epoxy and Fatty Acids

A Mixture of:

Diethylene Triamine	111-40-0			
Triethylene Tetramine	113-24-3	1 (Skin) **		Less Than 10
Tetraethylene Pentamine	112-57-2			
And Isomers				

**Potential contribution to overall exposure is possible via skin absorption.

Section III—Physical/Chemical Characteristics

Boiling Point	Indeterminate	Specific Gravity (H ₂ O = 1)	8.15 Lbs./Gal.
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	Heavier	Evaporation Rate (Butyl Acetate = 1)	Slower
Solubility in Water	Slight		

Appearance and Odor Amber Colored, Viscous Liquid with Amine Odor

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used) Greater Than 200°F	Flammable Limits	LEL N/A	UEL N/A
	Unknown	1.4	

Extinguishing Media Use water spray, dry chemical, foam, or carbon dioxide.

Special Fire Fighting Procedures Treat as Class E fire. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. If spilled, use water spray to disperse vapors.

Unusual Fire and Explosion Hazards Containers of this material may build up pressure if exposed to heat (fire). Closed containers may rupture when exposed to extreme heat. Use water spray to cool fire-exposed containers. Suggest wearing goggles and/or breathing apparatus.

DO NOT USE WELDING OR CUTTING TORCH ON DRUMS EVEN WHEN EMPTY.

(Reproduce locally)

OSHA 174 Sept. 1985

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XX	Excessive Heat

Incompatibility (*Materials to Avoid*) Acids, Epoxy Resins

Hazardous Decomposition or Byproducts Carbon Dioxide, Carbon Monoxide and Oxides of Nitrogen

Hazardous Polymerization	May Occur	XX	Conditions to Avoid
	Will Not Occur		

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Irritant	Skin? Irritant	Ingestion? Irritant
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Health Hazards (*Acute and Chronic*) EYES: Direct contact may cause eye irritation, including tearing and redness.

SKIN: Prolonged or repeated contact with skin, may cause irritation and dermatitis (inflammation)

INGESTION— May cause irritation.

HALATION: Inhalation of vapor may cause nausea and irritation of the respiratory tract (nose, throat, and lungs)

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
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No Specific Information

Signs and Symptoms of Exposure SKIN: This material may cause skin irritation with prolonged or repeated contact. Flush with plenty of water on contact—Seek medical help.

INHALATION: Excessive exposure to vapors can cause nausea and respiratory irritation (nose, throat, and lungs).

Medical Conditions

Generally Aggravated by Exposure Nausea and Respiratory Tract Irritation

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled Eliminate sources of ignition. Dike spill to minimize contamination.

Completely absorb the material with inert material, dry sand, earth—sweep or scoop up and dispose. Incinerate in furnace or bury in landfill in accordance with local, state and federal regulations. U.S. E.P.A. does not define product as hazardous waste by RCRA. Flush area immediately with plenty of water; remove from waterway entry.

Precautions to Be Taken in Handling and Storing Avoid contact with skin. Store in a dry place. Keep away from heat and open flame. Do not use welding or cutting torch on containers even when empty.

Other Precautions This product can be classified as Class 5 – extremely irritating under ANSI Standard K68.1-1978. Consult federal, state, and local regulations to ensure that this material and its containers, if discarded, are disposed of in compliance with all regulatory requirements.

Section VII—Control Measures

Respiratory Protection (*Specify Type*) Respiratory protection is not generally required, during normal use and handling if used in adequately ventilated area. The need for respiratory protection should be evaluated if used in a poorly ventilated area. NIOSH approved respirators where needed.

Ventilation	Local Exhaust	Provide sufficient mechanical (general) ventilation to control airborne levels of irritating vapors.	Special	None
	Mechanical (<i>General</i>)	May not be adequate as sole means.	Other	None

Protective Gloves	Impervious Gloves	Eye Protection	Chemical Splash Goggles
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Other Protective Clothing or Equipment Coveralls, apron and rubber foot covering. Safety Shower and Eyewash Facility -- Wash clothing before reuse.

Work/Hygienic Practices