

**Performance
Polymers**

4917 Dawn Avenue
East Lansing, MI 48823-5691

8am to 4:30pm Phone: (517) 351-5900
24-Hour Health/Environmental Emergency Phone: 1-800-873-1138



Value beyond chemistry

Effective Date: 9/28/98

Material Safety Data Sheet

MSDS No: 5839

1. PRODUCT IDENTIFICATION

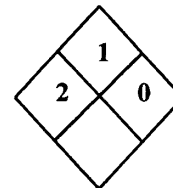
Trade Name: Hardener HV 953

Chemical Family: Polyamide/Amine

Synonyms:

H 953 HARDENER

Intended Use or Product Type: Epoxy Adhesive Hardener.



NFPA RATING

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PROTECTIVE EQUIPMENT	

HMIS RATING

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS#	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
TWA	STEL	PEL	STEL							
*	10563-29-8	1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-Dimethylene Propylene Triamine	NE	NE	NE	NE	NE	NR	NR	NR
	Common Name:									
*	68410-23-1	Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	NE	NE	NE	NE	NE	NR	NR	NR
	Common Name:	Polyamide Resin								

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Warning! Causes skin and eye irritation. May cause allergic skin reaction.

Primary Route(s) of Entry: Dermal; heated product may produce inhalable vapors.

4. FIRST AID MEASURES

Ingestion: If conscious, give plenty of water to drink. Do not induce vomiting. Call a physician.

Skin: Wash with soap and water. Remove contaminated clothing and laundry before re-use.

Inhalation: Remove to fresh air. Give oxygen and/or artificial respiration, if needed. Call a physician.

Eyes: Immediately flush eyes with water for at least 15 minutes. Call a physician.

Overexposure Effects: Warning! Causes skin and eye irritation. May cause allergic skin reaction.

Medical Conditions Aggravated by Exposure: Skin and eye conditions.

Additional Information: Referral to a physician is recommended if there is any question about the seriousness of any injury.

5. FIRE FIGHTING MEASURES

Flash Point: > 248°F (> 120 °C)

Flash Point Method Used: PMCC

Flammable Limits in Air (Lower - % by volume): Not established

Flammable Limits in Air (Upper - % by volume): Not established

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical, foam, water.

Fire Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Remove spillage by absorbing in absorbent material.

7. HANDLING AND STORAGE

Precautions: Warning! Causes skin and eye irritation. May cause allergic skin reaction. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Other Handling Information: Nuisance dust may be generated when sanding or sawing cured material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection: Wear impermeable gloves.

Respiratory Protection: Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: General mechanical and local exhaust in accordance with ACGIH recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear
Color:	Amber
Odor:	Ammoniacal
Physical State:	Liquid
Solubility in Water:	Insoluble
Specific Gravity:	0.9 - 1 (water = 1)
Boiling Point:	Not Determined
Evaporation Rate:	Not Determined
Vapor Density:	Not Determined
VOC:	0 g/L
pH:	Not Determined

Percent Volatile: Less than 1%.

10. STABILITY AND REACTIVITY

Conditions to Avoid: Excessive heat for prolonged periods of time.

Stability: Stable.

Incompatibility: Strong oxidizers and acids.

Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Sensitization: Possible in susceptible individuals.

Skin Irritation: Irritant.

Eye Irritation: Irritant.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.

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14. TRANSPORT INFORMATION

DOT: Non-Bulk

Proper Shipping Name: Resin compounds, N.O.I.

Department of Transportation: Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49 CFR 172.101 hazardous materials table.

15. REGULATORY INFORMATION

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: Chemical components listed on TSCA Inventory.

TSCA Section 12(b) - Export Notification: This product does not contain any chemicals subject to Section 12(b) export notification.

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name : Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines

CASRN : 68410-23-1

Common Name : Polyamide Resin

Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : 1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-

CASRN : 10563-29-8

Common Name : Dimethylene Propylene Triamine

Comment : Not on Pennsylvania Hazardous Substance List.

16. OTHER INFORMATION

MSDS No:

5839

Approved By:

Kenneth L. Payne

Title:

E,H&S Manager

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The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.