Dymax Corporation

51 Greenwoods Rd, Torrington, CT 06790 Phone: (860) 482-1010 Fax: (860) 482-1308

MATERIAL SAFETY DATA SHEET

PRODUCT 9-984-LVF

I. PRODUCT IDENTIFICATION

NFPA Est: HMIS Est: Health: 2 Health 2 Product Name: 9-984-LVF Synonyms: Polyurethane Oligomer Mixture Fire: 1 Flam: 1 React: 1 React: 1

II. COMPOSITION

Concentration Ingredient C.A.S. ACGIH TLV % Number High Boiling (Meth) Acrylate 45-55 PROPRIETARY
Acrylic Acid 5-10 79-10-7
Photoinitiator 1-3 947-19-3 --2 ppm Acrylic Acid 5-10
Photoinitiator 1-3
Polyurethane Oligomer 40-50
Photoinitiator 1-5 PROPRIETARY 24650-42-8 Photoinitiator 1-5 t-Butyl Perbenzoate 0.1-3 High Boiling (Meth) Acrylate 1-10 614-45-9 PROPRIETARY

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: 6 mm Hg at 30*C

Solubility in Water: Insoluble

Boiling Point: N.A.

Vapor Density: Heavier Than Air

Specific Gravity: 1.06

Appearance: Pale Yellow Liquid

Boiling Point: N.A. Appearance: Pale Yellow Liquid

Odor: Mild

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point: > 200*F (P.M.C.C.)

Recommended Extinguishing Agents: Use water spray, foam, dry chemical, or CO2.

Hazardous Products Formed by Fire

or Thermal decomposition: Toxic fumes (oxides of carbon and nitrogen) may be

evolved upon exposure to heat or open flame.

Unusual Fire or Explosion Hazards: None

Compressed Gasses: None Pressure at Room Temp: N.A.

V. REACTIVITY DATA

Stability: Stable Hazardous Polymerization: May occur

Hazardous Decomp. Prod.: None

Incompatibility: Oxidizers, amines, strong Lewis or mineral acids, thiosulfates. Smoke and toxic fumes may be evolved as a result of uncontrolled exothermic reaction of large masses of material reacting with curing agents, such as peroxides, amines, or exposure to light.

VI. SPILL OR LEAK PROCEDURES

Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as a chemical waste in accordance with current local, state, and federal regulations.

VII. STORAGE AND HANDLING PROCEDURES

Storage: Avoid storage over 100* F, exposure to light, loss of dissolved air,

loss of polymerization inhibitor, contamination with incompatible

Handling: Avoid prolonged or repeated breathing of vapor.

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VIII. SHIPPING REGULATIONS

DOT and IATA Hazard Classification: Not Restricted Article

Proper DOT Shipping Name: Unrestricted

Identification Number: DOT - None IATA - None

IX. EMERGENCY TREATMENT PROCEDURES

Eye Irritation: Immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Do not use organic solvents for cleanup as they may dry or

irritate the skin and act as a carrier for chemical absorption.

Inhalation: Remove affected person to fresh air. Ingestion: Low toxicity; Get medical attention.

X. PERSONAL PROTECTION

Respiratory: Positive fresh air exhaust should be provided in the work area;

respiratory equipment is unnecessary in normal use.

Skin: Avoid skin contact. Wear gloves and impervious protective

clothing if frequent direct contact is likely.

Eyes: Do not wear contact lenses. Chemical safety goggles are

recommended.

XI. HEALTH HAZARD DATA

Potential Routes of Entry: Skin, eyes, inhalation.

Symptoms of Overexposure: Possible skin and eye irritation on contact.

Inhalation of vapors in an unventilated area may,

over time, induce headaches.

Exposure Limits: ACGIH OSHA OTHER

(TLV) (PEL)

Ingredients

Acrylic Acid 2 ppm -- --

	Target Organs:		Carcinogen:	
		NTP	IARC	OSHA
High Boiling (Meth)Acrylate		NO	NO	NO
Acrylic Acid		NO	NO	NO
Photoinitiator		NO	NO	NO
Polyurethane Oligomer		NO	NO	NO
Photoinitiator		NO	NO	NO
t-Butyl Perbenzoate		NO	NO	NO
High Boiling (Meth)Acrylate		NO	NO	NO

Abbreviations:

N/A Not Applicable ALG Allergen IRR Irritant KID Kidney

LIV Liver REP Reproductive

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XII. REGULATORY INFORMATION

Sara Listed Ingredients: ACRYLIC ACID

TSCA Inventory: All Ingredients

STATE RIGHT-TO-KNOW

CALIFORNIA Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects, or other reproductive harm.

MASSACHUSETTS Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinary Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

** NONE **

PENNSYLVANIA Right-To-Know, Hazardous Substance List Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

** NONE **

OTHER REGULATORY INFORMATION:

** NONE **

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value PEL = Permissible Exposure Limit

NTP = National Testing Program

IARC = International Agency for Research on Cancer

NFPA = National Fire Protection Association

HMIS = Hazardous Materials Identification System

-- = No Data / Not Available

XIII. PREPARATION INFORMATION

Prepared By: Nicole Langer
Title: Laboratory Manager
24 Hr. Telephone: CHEMTREC 1-800-424-9300

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