Appendix B UV Curable Coating Used at DRS Sensors & Targeting Systems

Dymax Corporation

-

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

MATERIAL SAFETY DATA SHEET PRODUCT 984-LVF

I. PRODUCT IDENTIFICATION						
		NFPA Est:				
Product Name: 984-LVF		Health:				
Synonyms: Polyurethane Oligo	ner Mixture	Fire:				
		React:	1 React: 1			
II. COMPOSITION						
Ingredient Co	ncentration	C.A.S.	ACGIH TLV			
	90	Number				
High Boiling (Meth)Acrylate	45-55	PROPRIETARY				
Acrylic Acid	< 5	79-10-7	2 ppm			
Photoinitiator	1-3	947-19-3				
Polyurethane Oligomer	40-50	PROPRIETARY				
Photoinitiator	1-5	24650-42-8				
t-Butyl Perbenzoate	0.1-3	614-45-9				
		PROPRIETARY				
High Boiling (Meth)Acrylate	1-10	PROPRIEIARI				
III. CHEMICAL AND PHYSICAL	DDODEDWITES					
		Innon Dongitur	Heavier Than Air			
Vapor Pressure: 6 mm Hg at 3						
Solubility in Water: Insolu		pecific Gravit				
Boiling Point: N.A.	I	Appearance: Aml	per liquid			
Odor: Mild						
IV. FLAMMABILITY AND EXPLOS		5				
Flash Point: > 200*F (P.M.C.						
Recommended Extinguishing Ag	ents: Use wate	er spray, foam	, dry chemical, or CO2.			
Hazardous Products Formed by	Fire					
or Thermal decomposition: To	xic fumes (ox:	ides 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,						
thiosulfate	s. Smoke and	toxic fumes m	ay 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						
materials.						
Handling: Avoid prolonged or repeated breathing of vapor.						
nanating. Avoid protonged of repeated breaching of vapor.						

Page 1

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

MATERIAL SAFETY DATA SHEET PRODUCT 984-LVF

VIII. SHIPPING REGULATIONS

VIII. SHIFFING REGO	ATTONS						
DOT and IATA Hazard (Proper DOT Shipping I Identification Number	Name: Unre	stricted	icted				
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.							
irri Inhalation: Remo							
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 (TLV)	OSHA (PEL)	OTHER				
Ingredients	(12)	(/					
Acrylic Acid	2 ppm						
	Target Orga	ns: NTP	Carcinogen: IARC	: OSHA			
High Boiling (Meth)A	crvlate	NO	NO	NO			
Acrvlic Acid		NO	NO	NO			
Photoinitiator		NO	NO	NO			
Polyurethane Oligome	r	NO	NO	NO			
Photoinitiator		NO	NO	NO			
t-Butyl Perbenzoate		NO	NO	NO			
High Boiling (Meth)A	crylate	NO	NO	NO			
Abbreviations:							
N/A Not Applicable		ALG Allergen					
IRR Irritant		KID Kidney					
LIV Liver		REP Reproduc	tive				
XII. REGULATORY INF	ORMATION						
Sara Listed Ingredients: ACRYLIC ACID							
TSCA Inventory: All Ingredients							

Page 2

Dymax Corporation

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

MATERIAL SAFETY DATA SHEET PRODUCT 984-LVF

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

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 REVISION DATE: August 23, 2004

To the best of our knowledge, the information contained herein is accurate. However, Dymax Corporation does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Page 3