

MATERIAL SAFETY DATA SHEET
General Finishes Corporation

SECTION 1: Material Identification

Material Name: Enduro Crosslinker

Other Name: E-77

Revision Date: January 5, 2007

Material Description: Water-based Crosslinker

HMIS Ratings

Health: 1

Flammability: 0

Physical Hazard: 1

Manufacturer:

General Finishes Corp., 2462 Corporate Circle, East Troy, WI 53072
(800) 783-6050

Emergency Phone Numbers:

(262) 642-4545

SECTION 2: Composition/Information on Ingredients

CAS #	Chemical Name	Percent	TLV	PEL
7732-18-5	Water	50-60%	Not applicable	Not applicable
Proprietary	Multifunctional Crosslinker	40-50%	Not established	Not established

SECTION 3: Hazards Identification

*** Emergency Overview ***

Translucent liquid. Mild odor.

Prolonged skin contact may cause allergic skin reaction.

Prolonged exposure may cause skin and eye irritation.

Effects of Short-Term Overexposure:

Eyes: Irritation

Skin: Irritation

Inhalation: No data

Ingestion: Irritation, nausea

SECTION 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash with soap and water. Seek medical attention if necessary.

Inhalation: If exposed to excessive levels, remove to fresh air. Seek medical attention if necessary.

Ingestion: Take two glasses of water and induce vomiting if conscience. Seek medical attention if necessary.

SECTION 5: Fire Fighting Measures

Flash Point: Above test limits °F

Method Used: CC (ASTM D3828)

Flammable Limits (Percentage in air):

UEL: ND

LEL: ND

Extinguishing Media: Foam, carbon dioxide, dry chemical, water spray

Control Measures: Use self-contained breathing apparatus and full turn-out gear. Use water spray to cool containers.

Unusual Hazards: Closed containers may rupture or explode when exposed to extreme heat.

SECTION 6: Accidental Release Measures

Spills: Use personal protective equipment. Ventilate area. Contain spilled material and soak up with inert absorbant. Collect for disposal.

Releases to the air: Not applicable

SECTION 7: Handling and Storage

Handling: Avoid personal contact. Use with adequate ventilation. Wash after handling.

Storage requirements: Storage at low temperature (0-25oC is recommended. This material can react with water at temperature over 40oC and generate urea compound resulting in low performance. Do not let it touch active hydrogen-containing compounds such as carboxylic acids, amines, and alcohols. Avoid exposure directly to sunlight. Keep container closed and upright. Do not store above 120 °F.

SECTION 8: Exposure Controls and Personal Protection

Protective equipment:*

Eyes: Safety glasses or chemical goggles. Full face-shield is advised.

Skin: Impervious gloves should be worn to prevent prolonged or repeated skin contact

Respiratory: A NIOSH/MSHA approved air-purifying respirator if exposure limits exceeded

Clothing: Wear Impervious clothing and boots.

Ventilation: Good general ventilation should be sufficient to control airborne levels.

Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Additional information: None

*Protective equipment should be determined by conditions of exposure.

SECTION 9: Physical and Chemical Properties

Appearance and Odor: Transparent, pale yellow liquid. Slight odor.

Specific gravity (water = 1): 1.04

Boiling point: ND

Melting/freezing point: ND

Percent volatile: 50-60% by wt

VOC: 0 % /wt

Vapor pressure: ND

Vapor density (air = 1): ND

Evaporation rate (n-Butyl acetate = 1): ND

pH: ND

Solubility in water: 100%

SECTION 10: Stability and Reactivity

Stability: Stable

Conditions to avoid: Not applicable

Hazardous polymerization: Not applicable

Conditions to avoid: Not applicable

Reactivity: This product reacts with active hydrogen-containing compounds such as carboxylic acids, amines, and alcohols.

Hazardous decomposition products: ND

Unusual hazards: Not applicable

SECTION 11: Toxicological Information

Acute Dermal Irritation/Corrosion Study in Rabbits: Non Irritation

Acute Eye Irritation in the Rabbit: Mild Irritant

Skin Sensitization in the Guinea Pig Magnusson and Kingman Maximization Method:
Extreme Sensitive

Local lymph node Assay, LLNA: Extremely Weak or Non Sensitive

Acute Oral Toxicity Study in Rats (Limit Test): LD50>2000 mg/kg

Acute Dermal Toxicity Study in Rats (Limit Test): LD50>2000 mg/kg

Mutagenicity: Negative (Ames Test)

SECTION 12: Ecological Information

COD: 250,000 mg/kg

BOD: Below 5 mg/kg

Ecotoxic Effects: ND

Degradation: None

Acute fish toxicity: LC50>200mg/l

Test species: *Oryzias latipes* Duration of exposure: 96 hrs.

Bioconcentration fish test: Bioconcentration factors at a steady state: 40

Test species: *Cyprinus Carpio* Duration of exposure: 28 days

Nominal concentrates of test substance: 2 mg/l

Further ecological hints: Do not allow to escape into wastewater or soil

Behaviour in Sewers: Prior to the discharge of waste into sewage purification plants, neutralize. This product should not be discarded in water system without pre-treatment (biological purification)

Indications regarding disposal: ND

Other Information: This product reacts with water slightly forming a solid insoluble product (polyurea).

SECTION 13: Disposal Procedures

Incineration is the recommended disposal method. Product collected on absorbent may be disposed in a land fill in accordance with all applicable local, state, and federal regulations.

SECTION 14: Transportation Information

DOT Hazard Classification: Not regulated

SECTION 15: Regulatory Information

TSCA: Listed.

Europe: Ingredients come under polymer exemption rule.

Australia: Ingredients come under polymer exemption rule.

California Proposition 65: WARNING: No

California Proposition 65: WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm. No.

SECTION 16: Other Information

Abbreviations:

NA - Not applicable

ND - Not determined

Health: 1

Flammability: 0

Physical Hazard: 1

General Finishes believes that the information contained in this MSDS is correct as of this date. However, because the material may be used under conditions over which General Finishes has no control or in ways we cannot anticipate, we give no warranty, expressed or implied, as to the accuracy of the information. General Finishes assumes no responsibility for any damage to person, property or user of this material or to insure that it is properly and safely used.

End of MSDS