



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EFI EDGE HARDENER WA 3200
IDENTIFICATION NUMBER: WA 3200
PRODUCT USE/CLASS: Coating

SUPPLIER

efi Polymers
3875 Steele Street, Unit E
EMERGENCY: 800-255-3924 Chem-Tel
INFORMATION: 303-333-1876

PREPARED BY: Cathy Griffith, PHONE: 303-333-1876, PREPARE DATE: 06/03/02

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WTS
01	Dipropylene glycol monomethyl ether	34590-94-8	1.0-5.0
02	Dipropylene glycol monobutyl ether	29911-28-2	1.0-5.0

EXPOSURE LIMITS

ITEM	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	100ppm	150ppm	100ppm	N.E.	100ppm NIOSH	YES
02	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Irritation to skin or eyes.

ACUTE EFFECT – EYE CONTACT: Causes eye irritation.

ACUTE EFFECTS – INHALATION: Liquid aspirated into lungs may cause serious injury or death. May cause headaches and dizziness.

ACUTE EFFECTS – INGESTION: May cause nausea and vomiting. Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

CHRONIC OVEREXPOSURE EFFECTS: *Component(s) in this product showed adverse reproductive effects in animal feeding studies.

OTHER INFORMATION: No information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, EYE CONTACT

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

HYGIENIC PRACTICES: Follow good general industrial safety practices during use. Do not smoke or eat during use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 362 –447 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Mild acrylic	ODOR THRESHOLD	: No data
APPEARANCE	: Off-white	EVAPORATION RATE	: Is slower than Butyl Acetate
SOLUBILITY IN H ₂ O	: Appreciable	SPECIFIC GRAVITY	: 1.0445
FREEZE POINT	: No data	ph @ 100.0 %	: N/D
VAPOR PRESSURE	: No data	VISCOSITY	: Low
PHYSICAL STATE	: Liquid		

COEFFICIENT OF WATER/OIL DISTRIBUTION: No data
(See Section 16 for abbreviation legend)

SECTION 10 – STABILITY AND REACTIVITY

CONDITION TO AVOID: None known

INCOMPATIBILITY: Strong Lewis or mineral acids. Strong bases or oxidants.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 – TOXICOLOGICAL PROPERTIES

COMPONENT TOXICOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	LD50	LC50
Dipropylene glycol monomethyl ether	derm (rbt) 20ml/kg	No data
Dipropylene glycol monobutyl ether	No information	No information

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No information

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures.

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SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not regulated
DOT TECHNICAL NAME: N/A
DOT HAZARD CLASS: N/A HAZARD SUBCLASS: N/A
DOT UN/NA NUMBER: N/A PACKING GROUP: N/A RESP. GUIDE PAGE:
INTERNATIONAL SHIPPING NAME: Not regulated
INTERNATIONAL ID NUMBER: N/A IMDG PAGE NUMBER: N/A
IMDG CLASS (1ø, 2ø): N/A IATA CLASS (1ø, 2ø): N/A
IMDG EMS: N/A

SECTION 15 – REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
CEERCLA – SARA HAZARD CATEGORY:
This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:
IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372:

-----CHEMICAL NAME -----	CAS NUMBER	WT/WT %
Dipropylene glycol monomethyl ether	34590-94-8	5.0
Dipropylene glycol monobutyl ether	29911-28-2	5.0

TOXIC SUBSTANCES CONTROL ACT:
The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

-----CHEMICAL NAME -----	CAS NUMBER
No components found.	

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.
CANADIAN WHMIS CLASS: D2B

COMPONENT RCRA CLASSIFICATIONS: No information.
COMPONENT RCRA CODES: No information.
CERCLA RQ VALUE (MINIMUM): No information.

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SECTION 16 – OTHER INFORMATION

HMIS RATINGS – HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE:

REASON FOR REVISION DATE: New format

VOLATILE ORGANIC COMPOUNDS (VOCS): 37 grams/ltr (calculated)

LEGEND: N.A. – No information, N.E. – Not Established,
N.D. – Not Determined

ABBREVIATIONS: ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = US Occupational Health and Safety Administration; UK = United Kingdom; TLV-TWA = Threshold Limit Value–Time Weighted Average (8 hrs); STEL = Short-Term Exposure Limit (15 min); C = Ceiling Value; Pel = Permissible Exposure Limit.

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<End of MSDS>