MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Monomer

PRODUCT NAME: Rainbow Drops Red

Manufacturer's Name : EZ Flow Nail Systems Address: 13720 Rosecrans Ave City, State, Zip: Santa Fe Springs, CA 90670

Business Telephone : 562-229-0337 Emergency Telephone: 800-535-5053

PREPARATION/UPDATE DATE: 01/30/01 PRINT DATE: 8/16/02

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Ethyl Methacrylate Monomer	97-63-2	60.0-100.0
02	4-Methoxyphenol	150-76-5	40-80 ppm
03	Azo Dye	1320-06-5	0.5-1.5

	ACG	IH	OSH	A	Company	
ITEM	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING	Recommendation	SKIN
01	100 ppm	NE	100 ppm	NE	100 ppm	NE
02	5 mg/m ³	NE	5 mg/m ³	NE	5 mg/m ³	NE
03	NE	NE	NE	NE	NE	NE

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: For Mixture: May irritate eyes, skin and respiratory tract.

For Methacrylate:

Acute Hazards: Eyes: Eye contact may cause irritation with discomfort, tearing, or

blurring of vision.

Respiratory Tract: Inhalation may cause irritation of the respiratory tract with

coughing, of nonspecific discomfort, such as nausea,

headache and or weakness.

Skin: Effects in humans include skin irritation with discomfort or

allergic skin rashes.

Digestive Tract: Ingestion may cause anesthetic effects such as dizziness,

headache, confusion, incoordination, and loss of

consciousness

Symptoms: May include burning sensation, coughing, wheezing,

laryngitis, shortness of breath, headache, nausea and

vomiting.

Chronic Hazards: Skin: May cause allergic skin rashes.

Animal Studies: Administered lethal oral doses include weakness, labored

and irregular respiration, drop in arterial blood pressure and

coma.

For 4-Methoxyphenol:

Acute Hazards: Eyes: Causes severe irritation.

Ingestion: Harmful if swallowed.

Inhalation: Harmful if inhaled, irritating to mucous membranes and

upper respiratory tract.

Skin: Harmful if absorbed through skin.

Duration: Depending on the intensity and duration of exposure, effects

may vary from mild irritation to severe destruction of tissue.

Chronic Hazards: Eyes: Prolong contact may cause eye damage.

Skin: May cause severe burns or irritation.

Eyes: Avoid contact, may cause irritation.

For Azo Dye: Eyes: Avoid contact, may cause irritation

Skin: Avoid contact, may cause irritation.
Inhalation: Do not inhale, may cause irritation.
Ingestion: Do not ingest, may cause irritation.

CARCINOGENICITY: None of the components of this material are listed by IARC,

NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY: Inhalation, Skin or Eyes.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Get medical help if discomfort persists.

EYES: Flush with water for 15 minutes, including under eyelids. Get medical help if

discomfort persists.

SKIN: Wash with soap and water. Get medical help if discomfort persists.

INGESTION: Rinse mouth out with water. Do not induce vomiting. Call doctor if amount was large.

CLOTHING: Wash thoroughly before reuse.

TREATMENT: Treat symptoms after thorough decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 16 °C, 60 °F

FLAMMABLE LIMIT, AIR VOL% LOWER: 1.8

UPPER: ---

AUTOIGNITION TEMPERATURE: 411 °C, 771 °F

EXTINGUISHER METHOD: Chemical foam, carbon dioxide, dry chemical.

FIRE AND EXPLOSION HAZARDS: Vapors may travel to source of ignition and flash back. Heat can

cause polymerization with rapid release of energy which may rupture container explosively. (Spontaneous polymerization may

occur on prolonged storage.)

SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus, and full protective gear.

Use water spray to cool containers. Fight fire from protected location.

SENSITIVE TO MECHANICAL IMPACT: No.

EXPLOSION HAZARD:

SENSITIVE TO STATIC DISCHARGE:

Yes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE: Evacuate the area. Eliminate sources of ignition. Use self-

contained breathing apparatus and protective clothing. Dike and absorb with inert material. Transfer to proper containers for disposal, use non-sparking tools. Contaminated monomer may be unstable, add inhibitor to prevent polymerization. Keep spills and cleaning runoffs out of sewers and open bodies of water. Spills on

porous surfaces can contaminate the groundwater.

SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Observe precautions found on the label. Close container after each

use. Ground all metal containers when transferring. Use explosion-

proof equipment.

PRECAUTIONS FOR STORING: Store in cool dry place away from heat, sparks, flame and direct

sunlight. Check inhibitor levels every three months.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: Use good, local explosion-proof ventilation with a minimum capture

velocity of 100 ft/min (30 m/min) at point of monomer release. Refer to Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists. Local exhaust ventilation is preferred since it prevents contamination dispersion into the work area by controlling it at its

source.

RESPIRATORY PROTECTION: Use self-contained breathing apparatus when needed.

EYE PROTECTION: Safety glasses or chemical splash goggles.

PROTECTIVE GLOVES: Impervious, nitrile.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash, safety shower and impervious clothing.

Protective creams should not be used for protection, but may be

used for ease of clean up.

INDUSTRIAL HYGIENE PRACTICES: Wash face and hands thoroughly with soap and water after use and

before eating, drinking, smoking or applying cosmetics.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear red liquid.

ODOR: Acrid, fruity.

pH: ND ODOR THRESHOLD: ND

BOILING POINT: 119 °C, 246 °F

FREEZING POINT: ND VISCOSITY: Like water SPECIFIC GRAVITY ($H_2O=1$): 0.917

VAPOR PRESSURE: 15 mm Hg @ 20 °C, 68 °F

PERCENT VOLATILE W/W%: 99

VAPOR DENSITY (AIR=1): 3.9 @ 15.5 °C, 60 °F

EVAPORATION RATE (BuAc =1): 3.0

SOLUBILITY IN WATER: Moderate, 1.6 gm/100 gm @ 20 °C, 68 °F

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures above 21 °C, 70 °F, ignition sources,

oxidizing/reducing agents, peroxides, acids, alkalis, amines, aging

and contamination.

INCOMPATIBILITY (MATERIALS TO AVOID): Reducing and oxidizing agents and UV light. Material has strong

solvent properties and can soften paint and rubber.

HAZARDOUS DECOMPOSITION PRODUCTS: Mainly Oxides of Carbon when burned.

HAZARDOUS POLYMERIZATION: MAY OCCUR: X WILL NOT OCCUR:

STABILITY: UNSTABLE: X STABLE:

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:

For Methacrylate: None Listed.

For 4-Methoxyphenol: None Listed, however all data in this MSDS refers to MEHQ in the

dry powder form rather than in a liquid mixture. None Listed, however all data in this MSDS refers to MEHQ in the dry powder

form rather than in a liquid mixture.

For Azo Dye: None Listed.

MUTAGENICITY DATA: None Listed.

REPRODUCTIVE TOXICITY DATA:

For Methacrylate:

TOXICITY DATA:

For Methacrylate:

Inhalation Rat LC₅₀: 8300 ppm/4H. Intraperitoneal Mouse 1369 mg/kg. LD₅₀: Intraperitoneal Rat LD₅₀: 1223 mg/kg. Oral Mouse LD₅₀: 7836 mg/kg. Oral Rat LD₅₀: 14800 mg/kg. Oral Rabbit 3630 mg/kg. LD₅₀: Subcutaneous Rat LD_{Lo} 25 gm/kg.

For 4-Methoxyphenol:

Intraperitoneal, Mouse LD₅₀: 250 mg/kg.
Intraperitoneal, Rat LD₅₀: 725 mg/kg.
Intraperitoneal, Rabbit LD₅₀: 970 mg/kg.
Oral, Rat LD₅₀: 1600 mg/kg.
For Azo Dye: None Listed.

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

For Methacrylate: None Listed.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: When discarded it is listed as a hazardous waste by the EPA under

RCRA U-118 with the reportable quantity (RQ) of 1000 pounds (40 CFR Part 302). Incinerate liquid and diking material after addition of excess inhibitor, in accordance with Federal, State, and Local

regulations.

DISPOSAL OF EMPTY CONTAINERS: Reuse of empty drums or containers is not recommended.

Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. It is our policy to discourage the reuse of empty containers and to dispose of all empty containers properly, in accordance with

Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION

DOT/UN SHIPPING NAME: ETHYL METHACRYLATE MONOMER, INHIBITED

DOT/UN CLASS:

NA/UN NUMBER: UN 2277

PACKING GROUP: PACKING GROUP II

 NAERG:
 129P

 LABEL:
 Flammable Liquid

 NMFC ITEM #:
 42650

 SCHEDULE B:
 2916.14.2010

IMDG CLASS: 3.2 IMDG PG: 3226

CERLA RQ: For Ethyl Methacrylate Monomer: 1000 lb.

SECTION 15 - REGULATORY INFORMATION

ITEM 01 02 03	TSCA X X X	EINECS X X	CERCLA X X	313 X X	CAA X	RCRA U 118
ITEM 01 02	CWA	PA X	NJ X	CA 65	WHMIS X X	

TSCA: FOR USE IN FDA REGULATED PRODUCTS ONLY

CANADIAN WHMIS: This product has been classified in accordance with the hazardous criteria of the CPR and the MSDS contains all the information required by the CPR.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH: FLAMMABILITY: 3 REACTIVITY:

PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Splash Goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH: FLAMMABILITY: 3 REACTIVITY: 2

ABBREVIATIONS:

Weeks

NA NE ppm mg gm kg mm	Not Applicable Not Established parts per million Milligram Gram Kilogram Millimeter	ND CPR G L mol µ	Not Determined Controlled Products Regulation Gallon Liter Mole Micro
LC TC BOD Lo TLm	Lethal Concentration Toxic Concentration Biological Oxygen Demand Lowest Threshold Limit	LD TD COD ThOD	Lethal Dose Toxic Dose Chemical Oxygen Demand Theoretical Oxygen Demand
H D	Hours Days	M Y	Months Years

SECTION 16 - OTHER INFORMATION CONTINUED

Prepared By:	 Health, Safety and Environment
Reviewed By:	 Technical Review
Reviewed By:	 Senior Company Officer
Issue Date	

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.