

SAFETY DATA SHEET



EF52500™ ENVIRONMENTALLY FRIENDLY GEL PAINT STRIPPER

THIS MATERIAL SAFETY DATA SHEET MEETS OR EXCEEDS THE REQUIREMENTS OF THE CANADIAN CONTROLLED PRODUCT REGULATIONS (WHMIS)

SECTION 01 PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name	EF5-2500™
Product Identifier	777-020
Manufacturer	Molecular Tech Coating Inc.
	#101-20050 Stewart Crescent, Maple Ridge BC V2X 0T4 CANADA
Prepared By	Senior Chemist
Preparation Date	May 2015
Emergency Phone #	(604) 465-8028
Revision Number	00007
Material Use	Mixture of solvent and water

SECTION 02 HAZARDOUS INGREDIENTS

Routes of Entry:

Skin Contact: Minor **Eye Contact:** Moderate **Ingestion:** Moderate **Inhalation:** Minor

ACUTE HEALTH EFFECTS: direct contact may cause minor irritation of skin. In persons predisposed to skin problems, minor rash may occur. Contact with the eyes may cause severe irritation, or burning affecting corneal opacity. Although ingestion is not a typical route of entry, ingesting small amounts may cause abdominal discomfort. Inhalation of vapors may cause dizziness, headache, nausea, and difficulty breathing. If misted, inhalation will cause severe irritation of the upper respiratory tract, and lung sensitization.

CHRONIC HEALTH EFFECTS: prolonged contact with the skin may cause redness, rash leading to dermatitis. Chronic inhalation of mists or vapors may cause irreversible lung damage.

HAZARD RATING (0-minimal, 1-slight, 2-moderate, 3-high, 4-extreme) Health 1- Flammability 0-Reactivity 0.

SECTION 03 COMPOSITION

Proprietary Formula: CONTAINS NO COMPONENTS THAT ARE REPORTED TO BE CARCINOGENIC TO HUMANS BY ANY REFERENCE SOURCE INCLUDING, IARC, OSHA, NTP & EPA. NONE OF THE COMPONENTS OF THE EF5-2500 ENVIRONMENTALLY FRIENDLY PAINT STRIPPER ON ANY OF THE EPA'S LISTS OF TOXIC OR HAZARDOUS SUBSTANCES.

Note: N/A= Not available. N/E= Not established

SECTION 04 FIRST AID MEASURES

Eye Contact:	Flush eyes with directed cold water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Consult a physician.
Skin Contact:	Wash affected area with soap and water and rinse thoroughly. If irritation develops obtain medical attention.
Ingestion:	Procedures not normally needed. If large quantities are ingested, seek medical advice.
Inhalation:	Remove to fresh air. Consult a physician.
Effects of Acute Exposure:	See above.
Effects of Chronic Exposure:	Human industrial experience has shown no significant inhalation hazard or skin irritation when good personal hygiene practices are followed.
Inhalation Chronic:	Not available.

SECTION 05 FIRE FIGHTING MEASURES

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Flash point:	>96 degree Celsius
Auto ignition temperatures:.....	not applicable see information under fire fighting instructions
Lower explosive limit:	not applicable
Upper explosion limit:	not applicable
Sensitivity to impact:.....	not sensitive
Sensitivity to static discharge:	not sensitive

Hazardous Combustion Productions: Burning may produce oxides of carbon and nitrogen.

Extinguishing Media: Use water only or soapy water.

Fire Fighting Instructions: This product is an aqueous solution, and will not combust. Do not enter confined fire space without proper personal protection. Use approved positive pressure self-contained breathing apparatus.

SECTION 06 ACCIDENTAL RELEASE MEASURES

Personal protection: See section 8 for proper protective equipment to be worn while cleaning an accidental spill.

Environmental precautions: Not to expect to have any environmental impact.

Cleanup procedures: Take precautions to prevent entry of the product into the environment. Absorb onto sand or other inert absorbent media. Shovel into approved closable waste containers for disposal. Thoroughly flush with water.

SECTION 07 HANDLING AND STORAGE

Handling procedures: Use in and adequately ventilated area. Keep container tightly closed when not in use. Avoid methods of use that will cause misting of product. Launder clothing before reuse. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products. Keep from freezing.

Storage: Store in cool, dry place and in an upright position to prevent leakage and away from acids.

SECTION 08 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls: If used indoors, ensure adequate ventilation by using local exhaust.

Respiratory protection: If product is atomized, or heated to product vapors, use a NIOSH approved organic vapor respirator. When cartridge type respirators are used, ensure that the cartridges are changed frequently.

Eye and face protection: Chemical splash proof goggles must be worn at all times.

Footwear: Rubber boots

Other: Eye wash station should be located near work area.

Protective Equipment	
Gloves:	Latex, neoprene, or PVC gloves
Respiratory/Type	A NIOSH/MSHA approved respirator as necessary. Organic vapor type.
Eye/Type	Splash proof goggles
Footwear/type	Rubber boots
Clothing/type	Adequate protective clothing – example: Heavy Duty Rain suit
Other/type	Eye wash facility should be in close proximity. Emergency shower should be in close proximity.
Sensitivity to static:	N/A
Discharge:	
Sensitivity to impact:	N/A

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Rate of burning:..... Not Applicable
Explosive power:..... Not Available

SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:.....	Milky gel
Chemical Family.....	Mixture
Odor.....	Pleasant aromatic alcohol odor
Odor/Appearance.....	Cloudy solution
Vapor Pressure (MMHG).....	< 2mm hg (Calculation)
Vapor Density (air =1).....	Not Applicable
% Solid by volume.....	13
% Solid by weight.....	14
Evaporation Rate.....	0.058 calculation (BuAc=1)
Boiling Point.....	>140 degree Celsius
Freezing Point.....	N/A
PH.....	5.6-7.2
Specific Gravity (water = 1).....	1.0-1.07
Solubility in Water (% W/W).....	Light
VOC (g/l).....	134 gram/Liter or 20% Volatile by weight
Flammability (Lower (%)).....	None
Flammability (Upper (%)).....	None

SECTION 10 STABILITY AND REACTIVITY

Chemical stability and reactivity: Product is stable. Product may react with strong mineral acids.

Incompatibility: Caustics, acids, alkali, cyanide, hexavalent chromium compounds, zinc compounds, zinc shaft of the pump, nitric acid, potassium permanganate, metals catalyst (Cobalt, zinc, calcium, lead, manganese, zirconium, bismuth...),metals, oxidizing, reducing agents, and flammables materials. **DO NOT IMMERSER GALVANIZE substrate.**

Hazardous decomposition products: Oxides of carbon and nitrogen. When mixed acids, the release of hydrogen in and exothermic reaction may take place.

Hazardous polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute exposure: Theoretical oral LD₅₀ for the product is greater than 4722mg/kg (oral/rat). The LC₅₀>1700ppm Rat.

Chronic exposure:	See section 3.
Exposure limits:	See section 2.
Irritancy:	See section 3.
Sensitization:	Not available
Carcinogenicity:	Not available
Teratogenicity:	Not available
Reproductive toxicity:	Not available
Mutagenicity:	Not available
Synergistic products:	None reported.

SECTION 12 ECOLOGICAL INFORMATION

Environmental toxicity:..... none of the components of EFS-2500 paint stripper appear on any of the EPA'S lists of toxic or hazardous substances.

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Biodegradability: *Ingredients using are biodegradable.*

SECTION 13 DISPOSAL CONSIDERATIONS

Canadian environmental protection act: All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

SECTION 14 TRANSPORT INFORMATION

Canadian transportation of dangerous goods regulation: Not regulated
International air transport association (IATA): Not regulated
International maritime organization (IMO): Not regulated

SECTION 15 REGULATORY INFORMATION

CANADIAN FEDERAL REGULATIONS:

CANADIAN ENVIRONMENTAL PROTECTION ACT: All ingredients are on the Domestic Substances List.

WHMIS CLASSIFICATION: Class D; Div.2; Subdivision B

SECTION 16 OTHER INFORMATION

PREPATION DATE: July 2015
PREPARE BY: Senior Chemist
REVISION: 00007
REFERENCE: MSDS from Univar Supplier
MSDS J.T.BAKER H2O2 SOLUTION
MSDS from Scholar Chemistry for Benzyl alcohol
MSDS from Ashland Chemical for Benzyl alcohol
MSDS from Emerald Kalama Chemical, LLC
Ventura County Air Pollution Control District.
WHMIS Guide MSDS

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