

Material Safety Data Sheet



Environmentally friendly paint stripper EFS-2500

TSE CTION 01: PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name.....	EFS-2500
Product Identifier.....	777-Series
Manufacturer.....	Molecular Tech Coatings Inc. 1-20030 Stewart Cres. Maple Ridge BC V2X 0T4 Canada.
Prepared By.....	Senior Chemist
Preparation Date.....	January 2005
Emergency Phone #.....	(604) 465-8028
Revision Number.....	00003
CEPA Status.....	all of the ingredients of this product are listed on the domestic substances list (DSL)
Hazard rating (0-minimal; 1-slight; 2-moderate; 3-high; 4-extreme).....	Health: 1 Flammability 0 Reactivity 0
WHMIS Classification.....	Class D; Div. 2; Subdivision B
TDG Classification.....	Not regulated
Material Used.....	Solvents mixture and water.

SECTION 02: HAZARDOUS INGREDIENTS

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 ESF-2500 PAINT STRIPPER APPEARS ON ANY OF THE EPA'S LISTS OF TOXIC OR HAZARDOUS SUBSTANCES. THIS FORMULATION DOES NOT CONTAIN N-MP (N-METHYL PYRROLIDON).

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

SECTION 03: PHYSICAL DATA

Physical State:.....	Liquid
Chemical Family.....	N/A
Odor.....	Pleasant aromatic odor
Odor/Appearance.....	Viscous, milky solution
Vapor Pressure (MMHG).....	4-9 mm/hg (Calculated)
Vapor Density (air =1).....	Not Applicable
% Volatile by volume.....	80
% Volatile by weight.....	20
Evaporation Rate.....	Slower than ether
Boiling Point.....	172°C (Calculated)
Freezing Point.....	None
PH.....	5.6-6.7
Specific Gravity (water = 1).....	1.001-1.007
Solubility in Water (% W/W).....	Insoluble
Coefficient of Water/Oil Distribution.....	Not Available
Molecular Formula.....	Not Applicable
Molecular Weight.....	Not Applicable

SECTION 04: FIRE AND EXPLOSION DATA

Flammability.....	Combustible
If YES, under what conditions?.....	High heat; expose to heat and contaminants may explode.
Flash Point.....	>93°C (Theo.)
Fire Extinguishing Media.....	Use water only. Contains hydrogen peroxide, an oxidizer
Special Fire Fighting Procedures.....	wear self-contained breathing apparatus. Do not breathe fumes. Use water spray to keep containers cool.
Auto Ignition Temperature.....	Not Available
TDG Flammability Class.....	None

Disclaimer: All technical advise, recommendations and service rendered by the seller are gratis. They are based on technical data which the seller believes to be reliable and are intended for use by persons having skills and know-how at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.

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Upper Explosion Limit	Not Available
Lower Explosion Limit	Not Available
Hazardous Combustion Products	Oxygen gas
Explosion Data:	Contains 1-7% hydrogen peroxide. Hydrogen peroxide itself reacts with a wide range of materials and although noncombustible, it can release oxygen to increase the combustion rate of other materials. Low concentrations will not usually ignite combustibles immediately, but subsequent water evaporation can cause delay of detonation. Contact with organic liquids or vapors may cause fire or explosion, especially if heated, or may delayed detonation. USE ONLY PVC, OR TEFLON PUMP SHAFT. DO NOT LEAVE THE PUMP SHAFT DIPPING IN THE PAINT STRIPPER DRUM OR PAIL TO AVOID THE REACTION OF SHAFT WITH HYDROGEN PEROXIDE. Always remove the pump shaft from the drum or pail after each uses and clean and dry for the next use.

SECTION 04: FIRE AND EXPLOSION DATA

Sensitivity to static:	N/A
Discharge:	N/A
Sensitivity to impact:	NONE
Rate of burning:	Not Applicable
Explosive power:	Not Available

SECTION 05: REACTIVITY DATA

Chemical Stability	Stable: YES
.....	Conditions to avoid: Excessive heat or contamination
Incompatible Materials	Caustics, acids, alkali, cyanide, hexavalent chromium compounds, zinc compounds, zinc shaft of the pump, steel shaft of the pump, nitric acid, potassium permanganate, metals catalyst (Cobalt, zinc, calcium, manganese, lead, zirconium, bismuth...), metals, oxidizing, reducing agents, and flammables.
Reactivity, under what conditions	Heat or contamination and heavy metals.

SECTION 06: TOXICOLOGICAL INFORMATION

Route of Entry:	Skin Contact: This product may cause skin irritation and/or sensitization after repeated contact.
.....	Skin Absorption: Not Applicable
.....	Eye Contact: Severe irritation, redness, tearing, blurred vision.
.....	Inhalation, Acute: High concentration can cause severe mucous membrane irritation and inflammation, pulmonary edema, and systematic poisoning with shock, coma and seizures.
.....	Inhalation, Chronic: Refer to Inhalation, Acute
.....	Ingestion: Do not induce vomiting unless advised to do so. Call a physician or poison control center. Seek medical attention immediately.
Effects of Acute Exposure:	Causes irritation, refer to route of entry
Effect of Chronic Exposure:	Refer to route of entry
LD50 of material, species and route	Refer to Hazardous ingredients section
LC50 of material, species and route	Refer to Hazardous ingredients section
Exposure Limit of Material	Refer to Hazardous ingredients section
Irritation Caused by material	may aggravate existing skin and eye disorders.
Sensitizing Capability	Skin sensitizer
Carcinogenicity of Material	Hydrogen peroxide is not classified as to its carcinogenicity to humans.
Reproductive Effects	None
Synergistic Materials	Unknown

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SECTION 07: PREVENTIVE MEASURES

Engineering Controls
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Handling Procedures and Equipment
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Storage Needs
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Clean Up Procedures: Leak/Spill
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Waste Disposal Method and Equipment
UN Number
Special Shipping Instructions:
.....
CPR Compliance:
.....
.....

General ventilation: local exhaust ventilation as necessary to control any air contaminants. To within their TLV's. In the use of this product, avoids all skin contact. Avoid breathing vapours of heated materials. Keep away from heat, sparks, and open flame. Wash thoroughly after handling.
Store away from heat and ignition sources, direct sunlight. Store it away from incompatible materials. Store it in a cool, dry, well-ventilated area. Prevent material from freezing; but if frozen, thaw at room temperature. Benzyl alcohol oxidizes slowly in air to form benzaldehyde. Do not smoke in use or handling areas.
Absorb with inert material.
Flush area with water spray. Equip employees with appropriate protective equipment.
In the accordance with Municipal, Provincial and Federal Regulations, not regulated.
Shipments of this product must be in compliance with all applicable Federal, Provincial and International transportation regulations.
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

SECTION 08: FIRST AID MEASURES

Eye Contact:
.....
Skin Contact:
.....
Ingestion:
poison control center.
Inhalation:
Effects of Acute Exposure:
Effects of Chronic Exposure:
.....
Inhalation Chronic:
Protective Equipment
Gloves:
Respiratory/Type
.....
Eye/Type
Footwear/type
Clothing/type
Other/type
.....

Flush eyes thoroughly with running water for at least 15 minutes, including eyelids. Seek medical attention.
Wash affected area with soap and water and rinse thoroughly. If irritation develops or pain persists, obtain medical attention.
Do not induce vomiting unless advised to do so. Call a physician or Seek medical attention immediately.
Remove to fresh air. Consult a physician.
See above.
Human industrial experience has shown no significant inhalation hazard or skin irritation when good personal hygiene practices are followed.
Not available.
Impervious gloves
A NIOSH/MSHA approved respirator as necessary.
Organic vapor type.
Splash proof goggles
Not applicable
Adequate protective clothing
Eye wash facility should be in close proximity. Emergency shower should be in close proximity.

SECTION 09: PREPARATION INFORMATION

Phone:(604) 465-8028

WARNING: KEEP OUT OF REACH OF CHILDREN