

SOYSOLV[®] GRAFFITI REMOVER

MATERIAL SAFETY DATA SHEET

SECTION 1 MATERIAL IDENTIFICATION

Product Name: SOYsolv Graffiti Remover
Revision Date: 3/24/00
Chemical Name: Ethyl Hydroxy Propionate/
Fatty Acid Methyl Esters
DOT Classification: Compound Cleaning Liquid N.O.S. UN NA 1993

SOYsolv[®]
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Formula: Blend

SECTION 2 HAZARDOUS INGREDIENTS

<u>Chemical/Common Name</u>	<u>Percent</u>	<u>CAS NO.</u>	<u>Applicable PEL-OSHA</u>	<u>Exposure Limits TLV-ACGIH</u>
Ethyl Lactate	10-90	97-64-3	none	none
Methyl Soyate	10-90	67784-80-9		

SECTION 3 HEALTH HAZARD DATA

Acute Health Effects:

Eyes: Risk of damage
Skin Contact: Not an irritant
Ingestion:
Inhalation: Possible narcotic effects at excessive exposure

Chronic Health Effects: None known; not listed as a carcinogen

Routes of Entry: Most common – skin and inhalation

Medical Conditions Aggravated by Exposure: Mist may cause eye/respiratory irritation with coughing

SECTION 4 FIRST AID MEASURES

Eyes: Immediately flush with water for at least 15 minutes. See a medical doctor immediately.
Skin: Rinse with water
Inhalation: Remove to fresh air. If discomfort occurs and persists, obtain medical attention.
Ingestion: Induce vomiting. See a doctor immediately.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Water, water fog, carbon dioxide (CO₂), dry chemical
Special Procedures: Wear NIOSH approved respirator
Degree of Fire and Explosion Hazard: Moderate. Rags soaked with any solvent can present a fire hazard and should be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags, under certain conditions can lead to spontaneous combustion.
Hazardous Decomposition Procedures: None. Decomposes to water and CO₂ when completely combusted.

SECTION 6 ACCIDENTAL RELEASE/SPILL MEASURES

Procedure for Cover with large quantity of absorbent material (e.g. kitty litter) and collect in drums for

Release or Spill: disposal. Clean contaminated area with water and discharge to sewer.

SECTION 7 CHEMICAL AND PHYSICAL DATA

Melting Point:	not applicable	Specific Gravity (H ₂ O=1):	0.946
Boiling Point:	292° F	Percent volatile by volume (%):	55
Vapor Pressure (mmHg):	0.9 @ 68° F	Evaporation rate (butyl acetate=1):	0.12
Vapor Density (air=1):	4.1	pH of water dispersion:	6.9
Flash Point (method used):	150° F	Appearance and Odor:	Clear colorless to light yellow liquid; mild odor
ASTM D93, closed cup			
Flammable limits @ 212° F:	Lel – no data Uel – No data		
Extinguishing Media:	water, foam, CO ₂	Odor Threshold:	no data
Special Fire Fighting Proc:	not required		
Incompatibility (materials to avoid):	none	Partition coefficient:	n-octanol/water – not applicable
Hazardous decomposition		Autoignition Temperature:	no data
Products:	none	Explosive Properties:	not applicable
		Oxidizing Properties:	not applicable

SECTION 8 STABILITY AND REACTIVITY DATA

Stability:	stable
Hazardous Polymerization:	none known
Conditions to Avoid:	none known
Materials to Avoid:	strong oxidizing agents
Major Contaminants that Contribute to Instability:	none
Incompatibility:	none known
Hazardous Decomposition Products:	none
Sensitivity to Mech. Impact:	none
Sensitivity to Static Discharge:	none

SECTION 9 TOXICOLOGICAL INFORMATION

Eye Contact:	irritant
Skin Contact:	LD 50 (rats/24 hrs.) >2000mg/kg
Skin Absorption:	no data available
Inhalation:	LC 50 (rat/4 hrs.) > 5400 mg/m ³
Ingestion:	LD 50 > 4090 mg/kg (rat) (RTECS 1985-86)
Acute Effects from Overexposure:	may cause irritation of the eyes
Chronic Effects from Overexposure:	none identified

(effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic, products, and any medical conditions generally recognized as being aggravated by exposure)

SECTION 10 ECOLOGICAL INFORMATION

Environmental Fate:	100% biodegradable
Environmental Effects:	No adverse effects known or suspected. Not listed toxic chemical under SARA Title 111.302, 304 or 313

SECTION 11 HANDLING AND STORAGE

Handling: Keep container tightly closed. Store in a cool, dry, well-ventilated, liquid storage area.

Ventilation: Use adequate general or local exhaust ventilation to keep vapor and mist levels as low as possible.
Storage: Store in a cool, dry area away from acids.

SECTION 12 EXPOSURE CONTROL/PERSONAL PROTECTION

Recommended Personal Protective Equipment:

Respiratory: None required where adequate ventilation conditions exist.
Ventilation:
(Local Exhaust): recommended
(Mechanical – general): general dilution
Eye Protection: Use chemical goggles
Gloves: Use impervious gloves to prevent skin contact.
Special Clothing and Equipment: Aprons recommended. If clothing becomes contaminated, remove and launder before reuse.
Other Protective Equipment: none identified
Foot Protection: industrial safety shoes
Other Engineering Controls: none identified
Work Practices: Do not smoke in areas of storage or use. Avoid all contact with skin and eyes.
Control Measures: Minimize eye and skin contact by using appropriate protective equipment. Use local or general room ventilation to control vapors or mist that may be generated into the work environment.

SECTION 13 SPECIAL PRECAUTIONS DATA

Precautions to be Taken in Handling and Storing – Avoid all contact with eyes or skin. Wear the appropriate protective equipment. Protect containers from physical damage.

Maintenance Personnel – Wash down vessels. Check the oxygen and combustible vapor content of the vessel atmosphere. Use the appropriate protective equipment.

SECTION 14 DISPOSAL PROCEDURES

Waste Disposal Method: Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water. Dispose in accordance with all applicable Federal, State and local environmental regulations.

SECTION 15 TRANSPORT INFORMATION

DOT Proper Shipping Name: Compound Cleaning Liquid, N.O.S.
IATA: not applicable
IMDG: Class 3.3
DOT Classification: Combustible Liquid N.O.S.
DOT Labels: Flammable Liquid, 3
DOT Marking: not applicable
DOT Placard: bulk: flammable liquid; no placard required under 110 gal.
UN Number: NA 1993, PG III
Hazardous Substance/RQ: not applicable
49 STCC Number: not applicable
Precautions To Be Taken in Transport: none needed
Other Shipping Information: none

SECTION 16 REGULATORY INFORMATION

OSHA Exposure Limits Substance(s): Ethyl Lactate
 OSHA PEL-TWA: not applicable
 STEL: not applicable
 Ceiling: not applicable
 Skin Designation: not applicable
 AGGIH TLV-TWA: not applicable
 STEL: not applicable
 Ceiling: not applicable
 Skin Designation: not applicable
 Target Organ Effects: Eye
 Carcinogenic Potential: none
 Regulated by OSHA: no
 Listed on NTP Report: no
 IARC Group 1, 2A, 2D: no
 US EPA Requirements Release Reporting CERCLA:
 (40 CFR 302):
 Listed Substances: not listed
 RQ: not applicable
 Category: not applicable
 RCRA Waste No.: not applicable
 Unlisted Substances: not applicable
 RQ: not applicable
 Characteristic: not applicable
 RCRA Waste No.: not applicable
 SARA Title III Sec 313 (40 CFR 372):
 Listed Toxic Chemical: not listed
 Inventory Reporting SARA Title III Sec 311/312:
 (40 CFR 370):
 Substance(s):
 Hazard Category:
 Planning threshold:
 Emergency Planning:
 SARA Title III Sec 302-303 (40 CFR 355):
 Listed Substances: not applicable
 RQ: not applicable
 Planning Threshold: not applicable
 US TSCA Status: listed
 Canada Ingredient Disclosure List Substance(s):
 Controlled Product:
 Hazard Symbols:
 Class and Division:
 Product Identification No.:
 Domestic Substance List:
 CEPA Priority List:
 Carcinogenicity: not listed in other OSHA, ACGIH, NTP, or IARC
 ACGIH Appendix A: not listed
 A1 – Confirmed Human: not listed
 A! – Suspected Human: not listed
 IARC Group 1 or 2: no
 Label Language (US/Canada) Health: not applicable
 Physical Handling and Storage: Keep container tightly closed. Store in a cool, dry, well-ventilated liquid storage area.

First Aid: In case of contact, immediately flush eyes with water for at least 15 minutes. If irritation persists, obtain medical attention. Flush skin with water.

State Regulations:

SECTION 17 ADDITIONAL INFORMATION

OSHA permissible exposure limit or ACGIH threshold limit value has not been established.

SECTION 18 HMIS LABEL

HEALTH: 1
FLAMMABILITY: 2
REACTIVITY: 0
PERSONAL PROTECTION: B

DEPARTMENT OF TRANSPORTATION

Hazardous Materials Regulations, 49 CFR

Proper Shipping Name: Compound Cleaning Liquid, N.O.S.
Hazard Class: 3
Packaging Group: III
Reportable Quantity: None
Label Required (drums): None
Placard Required (Bulk): Placard flammable liquid
Maximum Quantity – Aircraft: No limit
Stowage on vessels: Above or Below Deck

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