

Bio Gel Graffiti Remover

Removedor de Grafiti de Gel de Bio

Formulated using bio based solvents that are safe alternatives to highly flammable, toxic or petroleum hydrocarbon solvents, or corrosive chemicals. This product is a ready to use, non-toxic, VOC compliant, biodegradable product specifically designed to remove the most difficult marks and stains from many surfaces. This soy and corn bio-based graffiti remover is formulated using a gel technology that allows the product to cling to vertical surfaces to enhance performance and minimize water run off. Can be used on all types of metals, glass, cement, concrete, porcelain, stone, tile, desk tops and most baked on enamel surfaces.

ENVIRONMENTALLY RESPONSIBLE COMPARISON			
Traditional Products	elements		
Chlorinated solvents (i.e. methylene chloride tetrachloroethylene)	Ethyl lactate		
Nonylphenol ethoxylates	Linear Alcohol Ethoxylate*		
2-Butoxyethanol, Ethylene glycol monobutyl ether	Propylene glycol phenol ether		
n-Methylpyrrolidone (NMP)	Methyl soyate		
Aromatic solvents (i.e. toluene, xylene, ethyl benzene)	None		
Benzyl alcohol	None		
Acetone	None		
Potassium hydroxide	None		

Traditional Compound Descriptions:

Chlorinated solvents – strong nonflammable solvents. However, California Prop 65 listed as chemical known to cause cancer.

Nonylphenol ethoxylates – a non-ionic surfactant that is used to provide wetting and detergency. However, it is derived from a petroleum-based product. It has a suspected harmful biodegradable intermediate.

2-Butoxyethanol – effective water-soluble solvent to attack both water-soluble and water-insoluble inks and paints. However, it is a potential nose and eye irritant and may cause blood cell, liver or kidney damage if absorbed through skin.

 $\label{eq:continuous} \textbf{n-Methylpyrrolidone} - \text{strong solvent. However, California Prop } 65 \text{ listed as chemical known to cause reproductive toxicity.}$

Aromatic solvents – flammable solvents. However, considered of high concern of chronic toxicity to fish by EPA PBT Profiler1. Toluene is California Prop 65 listed as a chemical known to cause reproductive toxicity. Ethylbenzene is California Prop 65 listed as a chemical known to cause cancer.

Benzyl alcohol - respiratory, eye and skin irritant earning a "do not use" recommendation on the Janitorial Products Pollution Prevention list.

Acetone - strong solvent. However highly flammable, dangerous to use.

Potassium hydroxide - corrosive to skin and eyes. Should not be freely released into the environment.

The U.S. Environmental Protection Agency (EPA) Persistent Bioaccumulative Toxin (PBT) Profiler – ecological and human health hazard screening tool.

elements Compound Descriptions:

Linear Alcohol Ethoxylate* - listed as Positive Environmental Profile surfactant on EPA design for the Environment Formulator Initiative. A non-ionic surfactant made from linear primary alcohol that biodegrades readily to compounds with low toxicity.

Ethyl lactate - biobased, low toxicity, readily biodegradable.

Methyl Soyate - biobased, low toxicity, readily biodegradable.

Propylene glycol phenol ether - low toxicity, readily biodegradable.

PRODUCT SPECIFICATIONS

Color: Flash Point (TCC): 127° F Amber Characteristic odor Odor: Storage/Stability: 1 vear VOC Content (w/w) < 30% pH: N/A Viscosity: Weight Per Gallon: 8.18 lbs./gal. Semi-gel Biodegradability: Complete Freeze/Thaw Stability: Keep from freezing

MATERIAL SAFETY DATA SHEET

N/A=Not Applicable Prepared by: Regulatory Affairs Dept. (Prepared According to 29 CFR 1910.1200) Effective Date: 9/07 Revision: n/a SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Product Name: Graffiti Remover Generic Name: Graffiti Remover Misco Products Corporation

Manufacturer's Address: Chemical Family: Solvent/Detergent Blend Formula: Proprietary

1048 Stinson Drive Reading, PA 19605 Manufacturer's Phone #: (610) 926-4106 Supplier's Name:

Supplier's Address:

Supplier's Phone #:

SECTION 2-HAZARDOUS INGREDIENT INFORMATION

CHEMICAL NAME CAS NO. WT. % PEL. TWA-TLV STEL-TLV Propylene Glycol phenyl Ether 770-35-4 5 to 10 Ethyl Lactate 687-47-8 20 to 30 Mixed Alcohol Ethoxylates 68439-46-3 5 to 10

Other ingredients in this product are considered non-Hazardous accourding to OSHA 29.CFR 1910.1200

SECTION 3-PHYSICAL DATA		SECTION 4-FIRE AND EXPLOSION HAZAI	RD DATA
Boiling Point (°F): 310+ F. Initial	Specific Gravity: 0.950 – 1.000	Flash Point (Method Used): 127° F. (TCC)	
Vapor Pressure: 2mm Hg @ 68 F.	Vapor Density (Air=1): N/A	Upper Explosion Limit: N/A Lower Explosion	on Limit: N/A
% Volatile: 40+	pH: N/A	Extinguishing Media: Foam, CO ₂ , dry chemical.	
Solubility in Water: Nil	Evaporation Rate (Water=1): <1	Special Firefighting Procedures: Do Not Use Water. Hand	le as oil fire.
Physical Description: Clear weak gel w	ith characteristic odor.	Unusual Fire and Explosion Hazards: Drums heated by fire	e can explode.
VOC Content: 30% by wt.			

SECTION 5-REACTIVITY DATA

Stability: Stable Hazardous Polymerization: None

Hazards Decomposition Products: Carbon monoxide possible if burned. Incompatibility (Materials to Avoid): Strong oxidizers and acidic agents.

SECTION 6-STORAGE AND HANDLING INFORMATION

WARNING: Eye irritant. May cause skin irritation with prolong or repeated contact. Combustible Liquid. Keep away from excessive heat, spark or open flames. Do not smoke while handling. Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Wear rubber gloves and eye protection when handling. Avoid breathing of vapors. Use in well-ventilated area. Empty container may contain explosive or flammable vapors.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

Skin: Prolonged or repeated contact may cause irritation, defatting, or dermatitis.

Eyes: Eye irritant. May cause redness, swelling, or blurred vision.

Inhalation: May be irritating to the nose, throat, and lungs. Large amounts can cause headache, nausea, dizziness, weakness, and fatigue.

Ingestion: Can cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause pneumonitis.

First Aid Procedures:

Skin: Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.

Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention.

Inhalation: Get to fresh air. If breathing is difficult, give oxygen. Seek medical attention is symptoms persist.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use with adequate ventilation. Use NIOSH approved Hydrocarbon (Organic vapor) canister respirator when using in confined areas. Ventilation Requirements: Provide explosion-proof ventilation to keep TLV of Section 2 ingredients below acceptable limit.

Protective Gloves: Solvent proof rubber or viton.

Eye Protection: Chemical splash goggles or full-face shield.

Other Protective Equipment: Eyewash station should be nearby. Protective chemical resistant outerwear when conditions exist where body contact is possible.

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways. Waste Disposal Method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and containers should be treated as hazardous waste based on the characteristic of ignitability as defined under federal RCRA regulations (40 CFR 261) Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:	Shipping Information:	HMIS Hazardous Materials		
Yes - Fire Hazard	FOR CONTAINERS > 1 Gallon: Cleaning Compound	Identification System		
No - Sudden Release of Pressure Hazard		Health	2	
No - Reactivity Hazard	FOR 1 GALLON CONTAINERS: Cleaning Compound	Flammability	2	
Yes - Immediate (acute) Health Hazard		Reactivity	0	
No - Delayed (chronic) Health Hazard	FOR CONTAINERS < 1 GALLON: Cleaning Compound	Personal Protection	C	

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight	
	None		
This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.			
_CAS#	Chemical Name	Percent by Weight	
	None		

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product