




Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). Class D-2B: Material causing other toxic effects (TOXIC). WHMIS (Classification)	HCS Class: Combustible liquid IIIA having a flash point between 60.0°C (140°F) and 93.3°C (200°F). HCS
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Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Green Earth Fiber Pro CITRUGEL	Code	416
Synonym	Natural Gum and Grease Remover	CAS #	Mixture.
Chemical Family	Not Applicable	Validation Date	12/9/2008
Chemical Formula	Not Applicable	Print Date	12/9/2008
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	In Case of Emergency	CHEMTREC (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS		

Protective Clothing



Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Alkyl Methyl Esters	67784-80-9	>45	Not available.	Not available.
Citrus Terpenes	5989-27-5	1 - 5	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].
Sodium Lauryl Sulfate	151-21-3	1 - 5	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	This product is an eye irritant. May cause mild irritation to the skin. May be fatal if swallowed.
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	In case of contact with eyes, rinse immediately with plenty of water. Seek IMMEDIATE medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water.
Inhalation	Evacuate the victim to a safe area as soon as possible.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Use dry chemical CO2 or Foam DO NOT use water.
Special Remarks on Fire Hazards	Container explosion may occur under fire conditions or when heated.
Special Remarks on Explosion Hazards	No additional remark.

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill and Leak	Absorb with DRY earth, sand or other non-combustible material.
Personal Protection in Case of a Large Spill	Gloves. Face shield. Boots. Full suit. Wear appropriate respirator when ventilation is inadequate.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes. DO NOT ingest.
Incompatibility	not available
Storage	Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Keep out of reach of children. For Institutional and Commercial Use

Section 8. Exposure Controls/Personal Protection

Engineering Controls Good general ventilation should be sufficient to control airborne levels.

Personal Protection

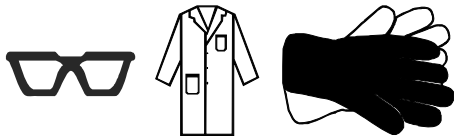
Eyes Safety glasses.

Body No special protective clothing is required.

Respiratory No special protective clothing is required.

Hands Gloves.

Protective Clothing (Pictograms)



Exposure Limits Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid	Odor	Citrus	
	Molecular Weight	Not applicable.	Taste	Not available.
			Color	Colorless.
pH	Not available.			
Boiling/Condensation Point	171.11°C (340°F)			
Melting/Freezing Point	Not available.			
Critical Temperature	Not available.			
Instability Temperature	Not available.			
Specific Gravity	0.92 (Water = 1)			
Vapor Pressure	<10 mm of Hg (@ 20°C)			

Vapor Density	>1 (Air = 1)
Volatility	90% (v/v).
VOC	40 (%)
Evaporation Rate	<1 compared to Water
Dispersion Properties	Disperses
Solubility	Insoluble in cold water, hot water.
The Product is:	COMBUSTIBLE.
Auto-ignition Temperature	Not Available
Flash Points	Closed cup: >62.778°C (145°F). (Tagliabue.)
Flammable Limits	Not Available
Fire Hazards in Presence of Various Substances	not available
Explosion Hazards in Presence of Various Substances	Containers may explode when heated.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	not available
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Toxicity to Animals	Acute oral toxicity (LD50): 5000 mg/kg [Rat]. (Propylene Glycol).
Acute Effects on Humans	<p><i>Eyes</i> This product is an eye irritant.</p> <p><i>Skin</i> Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available.</p> <p><i>Inhalation</i> Irritating to the mucous membranes of the nose, thorat and lungs. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.</p> <p><i>Ingestion</i> Not available.</p>
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.

Section 12. Ecological Information

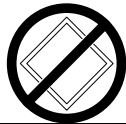
Ecotoxicity	Not Available
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not Applicable
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.

Section 14. Transport Information

DOT (U.S.A)
(Pictograms)



TDG Classification

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PIN UN, Proper Shipping Name, PG Shipping name: Combustible Liquid NOS UNNA: 1993 PG: III

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-2B: Material causing other toxic effects (TOXIC).



Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications HCS (U.S.A.) HCS Class: Combustible liquid IIIA having a flash point between 60.0°C (140°F) and 93.3°C (200°F).

USA Regulatory Lists

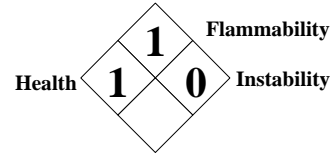
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Citrus Terpenes: Fire hazard, Immediate (Acute) Health Hazard; Sodium Hydroxide: Immediate (Acute) Health Hazard

DSD (EEC)

**Hazardous Material
Information System
(U.S.A.)**

Health	2
Flammability	1
Physical Hazard	0

**National Fire
Protection
Association
(U.S.A.)**



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product. **Specific Hazard**

Section 16. Other Information

Validated by CRushton on 12/9/2008.

Verified by CRushton.

Printed 12/9/2008.

Information Contact Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.