





# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

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

<b>Product Name/ Trade name</b> <b>Fiber Pro CITRUGEL</b>	<b>Code</b> 416
<b>Synonym</b> Natural Gum and Grease Remover	<b>CAS #</b> Mixture.
<b>Chemical Family</b> Not Applicable	<b>Validation Date</b> 3/26/2004
<b>Chemical Formula</b> Not Applicable	<b>Print Date</b> 3/27/2004
<b>Manufacturer/ Supplier</b> Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	<b>In Case of Emergency</b> CHEMTREC (800) 424-9300
<b>TSCA</b> TSCA Inventory: All components listed or are exempt from listing.	<b>Protective Clothing</b> 
<b>DSL/ NDSL</b> All components listed unless noted elsewhere on this MSDS	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
1) Citrus Terpenes	5989-27-5	40-50	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].
2) Sodium Lauryl Sulfate	151-21-3	1-5	Not available.	Not available.

## Section 3. Hazards Identification

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

## Section 4. First Aid Measures

<b>Eye Contact</b>	In case of contact with eyes, rinse immediately with plenty of water. Seek IMMEDIATE medical attention.
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water.
<b>Inhalation</b>	Evacuate the victim to a safe area as soon as possible.
<b>Ingestion</b>	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

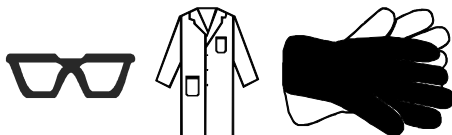
*Eyes* Safety glasses.

*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.
pH	Not available.	Color	Colorless.
Boiling/Condensation Point	171.11°C (340°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.916 (Water = 1)		

<b>Vapor Pressure</b>	<10 mm of Hg (@ 20°C)
<b>Vapor Density</b>	>1 (Air = 1)
<b>Volatility</b>	90% (v/v).
<b>VOC</b>	40 (%)
<b>Evaporation Rate</b>	<1 compared to Water
<b>Dispersion Properties</b>	Disperses
<b>Solubility</b>	Soluble
<b>The Product is:</b>	COMBUSTIBLE.
<b>Auto-ignition Temperature</b>	Not Available
<b>Flash Points</b>	CLOSED CUP: 51.111°C (124°F). (Tagliabue.)
<b>Flammable Limits</b>	Not Available
<b>Fire Hazards in Presence of Various Substances</b>	not available
<b>Explosion Hazards in Presence of Various Substances</b>	Containers may explode when heated.

### **Section 10. Stability and Reactivity Data**

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

### **Section 11. Toxicological Information**

<b>Routes of Entry</b>	Eye Contact Ingestion. INHALATION Skin contact.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 5000 mg/kg [Rat]. (Propylene Glycol).
<b>Acute Effects on Humans</b>	<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>
<b>Chronic Effects on Humans</b>	Over-exposure by inhalation may cause respiratory irritation.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.
<b>Special Remarks on Chronic Effects on Humans</b>	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	3	
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.	

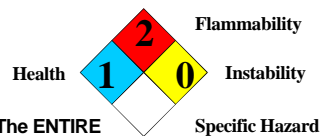
### Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)	WHMIS CLASS D-2: Material causing other toxic effects. WHMIS Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).	 
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 having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
	USA Regulatory Lists	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Citrus Terpenes: fire, immediate health hazard
	DSD (EEC)	
	International Regulations Lists	No products were found.

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

Health	2
Flammability	2
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.

**Section 16. Other Information**

Validated by CRushton on 3/26/2004.

Verified by CRushton.

Printed 3/27/2004.

**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.*

Validated on 3/26/2004.

**Fiber Pro CITRUGEL**

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