





Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	WHMIS Class D-2B: Material causing other toxic effects (TOXIC).	Class: Irritating substance.
WHMIS (Pictograms)	WHMIS (Classification)	HCS
Section 1. Chemical Product and Company Identification		
Product Name/ Trade name	Fiber Pro Spot Bet Gel	Code 424
Synonym	Not available.	CAS # Mixture.
Chemical Family	Not available.	Validation Date 4/04/2005
Chemical Formula	Not applicable.	Print Date 4/04/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 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
2-Butoxyethanol	111-76-2	1 - 8	ACGIH (United States). TWA: 20 ppm OSHA (United States). TWA: 50 ppm	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Sodium Thiosulfate	7772-98-7	1 - 5	Not available.	Not available.

Section 3. Hazards Identification	
Potential Acute Health Effects	Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant), of ingestion. Slightly hazardous in case of inhalation. Non-corrosive for skin. Non-sensitizer for skin. Non-corrosive to the eyes. Non-corrosive for lungs. Inflammation of the eye is characterized by redness, watering, and itching.
Potential Chronic Health Effects	Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce nervous system damage. Repeated or prolonged exposure to the substance can produce target organs damage. This information is based on animal studies for the component: 2-butoxyethanol. The relevance of this data to effects on humans has yet to be determined.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	INDUCE VOMITING by sticking finger in throat. Contact a poison control center or doctor IMMEDIATELY for further treatment advice.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

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	Dike spill area and do not allow product to reach sewage system and surface or ground water. Provide notification of any reportable spill to authorities. (See Section 12 for environmental risks and 13 for disposal information.)
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes Avoid breathing vapors of this product.
Incompatibility	oxidizing agents metals acids
Storage	Keep out of the reach of children. Not for use or storage in or around the home.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	Gloves: Protective gloves should be worn under normal conditions of use. Nitrile gloves. Neoprene gloves.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate. (Such as Vapor Respirator with Organic Cartridge)
<i>Hands</i>	Gloves (impervious).

Protective Clothing
(Pictograms)



Exposure Limits

Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pH	6 to 8 [Neutral.]	Color	Straw color.
Boiling/Condensation Point	98.889°C (210°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature			
Specific Gravity	1 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	90% (v/v).		
VOC	-1 (%)		
Evaporation Rate	<1 compared to Water		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	CLOSED CUP: >98.889°C (210°F).		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	Not available.		
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	oxidizing agents metals acids
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol). Acute toxicity of the gas (LC50): 700 ppm 7 hour(s) [Mouse]. (2-Butoxyethanol).
Acute Effects on Humans	<p><i>Eyes</i> Very hazardous in case of eye contact (irritant). Non-corrosive to the eyes. Inflammation of the eye is characterized by redness, watering, and itching.</p> <p><i>Skin</i> Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Harmful if absorbed through the skin.</p> <p><i>Inhalation</i> Irritating to respiratory system.</p> <p><i>Ingestion</i> Harmful if swallowed.</p>
Chronic Effects on Humans	Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce nervous system damage. Repeated or prolonged exposure to the substance can produce target organs damage. This information is based on animal studies for the component: 2-butoxyethanol. The relevance of this data to effects on humans has yet to be determined.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.

Section 12. Ecological Information

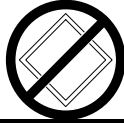
Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Hazardous waste.
Waste Stream	Hazardous Waste

Section 14. Transport Information

DOT (U.S.A)
(Pictograms)



TDG Classification Not controlled under TDG (Canada).



PIN UN, Proper Shipping Name, PG Not applicable.

Maritime Transportation Not available.

Special Provisions for Transport Not applicable.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) WHMIS 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.) Class: Irritating substance.

USA Regulatory Lists

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

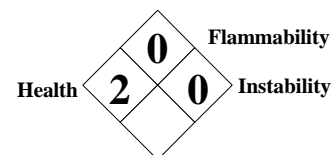
DSD (EEC) This product is not classified according to the EU regulations.

International Regulations Lists No products were found.

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

Health	*	2
Flammability		0
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 2/3/2005.

Verified by CRushton.

Printed 2/3/2005.

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 2/3/2005.

Fiber Pro Spot Bet

Page: 6/6

Continued on Next Page