



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	WHMIS CLASS E: Corrosive liquid.	HCS CLASS: Corrosive liquid.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Fiber Pro Red and Brown Out</b>	Code	419
Synonym	Tannin Treatment and Debrowner	CAS #	Mixture.
Chemical Family	Not Applicable	Validation Date	3/26/2004
Chemical Formula	Not Applicable	Print Date	3/27/2004
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		
		<b>Protective Clothing</b> 	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
1) Hydrochloric Acid	7647-01-0	1-2	STEL: 5	Not available.
2) Ammonium Bifluoride	1341-49-7	1-2	Not available.	Not available.

## Section 3. Hazards Identification

Potential Acute Health Effects	Corrosive to skin and eyes on contact. Tissue Destruction Possible. Eye contact can result in corneal damage or blindness.
Potential Chronic Health Effects	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

## Section 4. First Aid Measures

Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	Evacuate the victim to a safe area as soon as possible. Seek IMMEDIATE medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

### Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Non-flammable substance.
Special Remarks on Fire Hazards	No additional remark.
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 an inert material and put the spilled material in an appropriate waste disposal. IN CASE OF A LARGE SPILL Prevent entry into sewers, basements or confined areas.
Personal Protection in Case of a Large Spill	Full suit. Face shield. Boots. Full suit. Gloves (impervious).

### Section 7. Handling and Storage

Precautions	After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes. DO NOT ingest. Do not breathe gas, fumes, vapor or spray.
Incompatibility	alkalis metals
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room. 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* Splash goggles.

*Body* Long Pants and Long Sleeves to avoid skin contact.

*Respiratory* Wear appropriate respirator when ventilation is inadequate.

*Hands* Gloves (impervious).

#### Protective Clothing (Pictograms)



Exposure Limits **Hydrochloric Acid**  
STEL: 5

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pH	1 to 2 [Acidic.]	Color	Clear
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point	Not available.		

<b>Critical Temperature</b>	Not available.
<b>Instability Temperature</b>	Not available.
<b>Specific Gravity</b>	1 (Water = 1)
<b>Vapor Pressure</b>	20 mm of Hg (@ 20°C)
<b>Vapor Density</b>	>1 (Air = 1)
<b>Volatility</b>	90% (v/v).
<b>VOC</b>	0 (g/l).
<b>Evaporation Rate</b>	<1 compared to Water
<b>Dispersion Properties</b>	Disperses
<b>Solubility</b>	Soluble in water
<b>The Product is:</b>	Non-flammable.
<b>Auto-ignition Temperature</b>	Not applicable.
<b>Flash Points</b>	CLOSED CUP: >98.889°C (210°F).
<b>Flammable Limits</b>	Not applicable.
<b>Fire Hazards in Presence of Various Substances</b>	Non-flammable.
<b>Explosion Hazards in Presence of Various Substances</b>	Not Applicable

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

<b>Stability</b>	Stable
<b>Incompatibility with Various Substances</b>	alkalis metals
<b>Hazardous Decomposition Products</b>	Ammonia; Chlorine Gas

### **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>	
	<i>Eyes</i> Corrosive to eyes on contact.
	<i>Skin</i> Corrosive to skin and eyes on contact.
	<i>Inhalation</i> Irritating to the mucous membranes of the nose, throat and lungs. Can be fatal if inhaled or ingested.
	<i>Ingestion</i> May cause burns to mouth, throat and stomach.
<b>Chronic Effects on Humans</b>	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin 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	as toxic as the original product.
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 8



PIN UN, Proper Shipping Name, PG Shipping name: Corrosive liquids n.o.s. UNNA: 1760 PG: II

Maritime Transportation Not available.

Special Provisions for Transport Not available.

**Section 15. Other Regulatory Information and Pictograms**

WHMIS (Classification) WHMIS CLASS E: Corrosive liquid.



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: Corrosive liquid.

USA Regulatory Lists

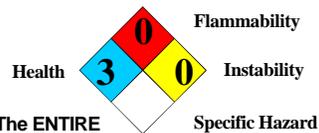
DSD (EEC)

International Regulations Lists No products were found.

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

Health	3
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.

**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 Red and Brown Out**

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