

TETRA Technologies, Inc.

MATERIAL SAFETY DATA SHEET



BioPol™HT

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1. PRODUCT AND COMPANY IDENTIFICATION

TETRA Technologies, Inc. 25025 I-45 North The Woodlands, TX 77380	CHEMTREC (24-Hr Emergency Response):	(800) 424-9300
	Poison Control:	(800) 222-1222
	Nonemergency Customer Service:	(281) 367-1983
Substance:	BioPol™HT	
Synonyms:	None	
Chemical Family	Polysaccharide	
MSDS Creation Date:	12 Jun 98	
MSDS Revision Date:	03 Aug 04	

2. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Number	Wt %	Component Name	RTECS Number
Proprietary	100%	Proprietary	Proprietary

The composition information on this product is proprietary. In the event of a medical emergency, spill or fire, compositional information will be revealed to a physician, nurse, or responding emergency personnel.

3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0-4):	Health – 0 Fire – 1 Reactivity – 0
Emergency Overview:	White to light yellow/cream colored powder. Odorless. Dust may cause mechanical irritation to the eyes. Breathing high concentrations of the dust may cause mechanical irritation of the nose, throat and upper respiratory tract. Use with adequate ventilation. Product may cause skin irritation if contacted for prolonged period of time. Ingestion is not an expected pathway in the industrial environment. Dust can form explosive mixture in air. This product is not hazardous as defined in 29 CFR 1910.1200.
Potential Health Effects:	
Inhalation:	Breathing high concentrations of the dust may cause mechanical irritation of the nose, throat and upper respiratory tract.
Skin Contact:	May produce irritation with prolonged contact.
Eye Contact:	May cause mechanical irritation.
Ingestion:	May cause gastrointestinal upset.
Carcinogen Status:	OSHA – No NTP – No IARC – No

4. FIRST AID MEASURES

Eye Contact:	Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of product remains (at least 15-20 minutes). If symptoms develop or persist seek medical attention.
Skin Contact:	Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent and large amounts of water until no evidence of product remains (at least 15-20 minutes). If symptoms develop or persist seek medical attention.
Inhalation:	Remove from exposure area to fresh air immediately. Dust may produce allergenic response and/or irritation in some individuals. If breathing has stopped, perform artificial resuscitation. Treat symptomatically and

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	supportively. Get medical attention immediately.
Ingestion:	Fluids should be ingested to prevent esophageal obstruction if dry material is ingested. Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration.
Notes to Physician:	No specific antidote. Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable
Extinguishing Media:	Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam (1996 North American Emergency Response Guidebook, RSPA P 5800.7).
Fire Fighting:	Move product from fire area if you can without risk. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Hydrated product can be very slippery. Avoid breathing vapors; keep upwind.
Fire and Explosion Hazard:	Negligible fire hazard when exposed to heat or flame. Like most dry chemicals, a potential dust explosion hazard exists if the dust concentration in air is too high.
Products of Combustion:	Thermal decomposition products may include toxic oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Evacuation and Safety:	Wear appropriate protective gear for the situation. See personal protection information in Section 8.
Containment of Spill:	For spills, sweep or scoop up and collect in containers for disposal.
Cleanup and Disposal:	Wash down spill area after pick up is complete. Use caution as the product becomes slippery when hydrated. Avoid creating dust clouds and breathing dust.

7. HANDLING AND STORAGE

Handling:	Observe all federal, state, and local regulations when handling this product.
Storage:	Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.
Exposure Limits:	No occupational exposure limits established.
Eyes:	Wear safety glasses with splash shields or safety goggles/shield.
Body:	Wear appropriate protective chemical resistant clothing and equipment to prevent repeated or prolonged skin contact with this product.
Respiratory:	Avoid breathing dust. Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Use of a NIOSH approved respirator should be based on contamination levels in the workplace or situation. For firefighting and other immediately dangerous to life or health conditions: Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated

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	in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.
Hands and Feet:	Wear appropriate protective gloves and boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description:	White to light yellow/cream colored powder.
Odor:	None
Boiling Point:	Not applicable
Melting Point:	Decomposes before melting
Molecular Weight:	Not available
Specific Gravity (H ₂ O=1):	0.5 to 0.6
pH:	6 - 8
Water Solubility:	Soluble
Vapor Density (Air=1):	Not applicable
Vapor Pressure:	Not applicable
Viscosity:	Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity:	Stable under normal temperatures and pressures.
Incompatibilities:	Strong oxidizing agents.
Hazardous Decomposition:	Thermal decomposition products may include toxic oxides of carbon.
Polymerization:	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
Conditions to Avoid:	May burn but does not ignite readily.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:	No data available
Local Effects:	No data available.
Health Effects:	No data available.

12. ECOLOGICAL INFORMATION

Environmental Summary:	No data available.
Ecotoxicity Data:	No data available.

13. DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

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14. DEPARTMENT OF TRANSPORTATION (DOT) TRANSPORT INFORMATION

Shipping Name:	Not regulated
ID Number:	Not applicable
Hazard Class or Division:	Not applicable
Packing Group:	Not applicable
Labeling Requirements:	Not applicable
Packing Authorizations:	
Exceptions:	Not applicable
Non-bulk Packing:	Not applicable
Bulk Packing:	
Quantity Limitations:	
Passenger Aircraft or Railcar:	Not applicable
Cargo Aircraft Only:	Not applicable
Vessel Stowage Requirements:	Not applicable
Emergency Guide Number:	Not applicable

15. REGULATORY INFORMATION

Workplace Classification:	
SARA Title III:	No
TSCA Status:	Yes
EINECS Status:	Yes
CERCLA:	Not regulated
OSHA Process Safety:	Not regulated
California Proposition 65:	Not regulated
WHMIS Classification:	Not determined

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16. OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.