

TETRA Technologies, Inc.

MATERIAL SAFETY DATA SHEET



BioPOL™L

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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™ L | |
| Synonyms: | None | |
| Chemical Family | Proprietary mixture | |
| MSDS Creation Date: | 16 Dec 96 | |
| MSDS Revision Date: | 03 Aug 04 | |

2. COMPOSITION, INFORMATION ON INGREDIENTS

| CAS Number | Wt % | Component Name | RTECS Number |
|-------------|--------|----------------|----------------|
| 011138-66-2 | 35-45% | Xanthan Gum | Not Determined |
| 112-34-5 | 55-65% | Butyl Carbitol | KJ9100000 |
| Proprietary | <1% | 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 – 2 Fire – 0 Reactivity – 0 |
| Emergency Overview: | White yellowish liquid. Slight odor. Avoid contact with eyes, skin or clothing. Avoid breathing vapors, mist, fume or dust. Use with adequate ventilation. |
| Potential Health Effects: | |
| Inhalation: | Not expected to be an inhalation hazard. |
| Skin Contact: | Lightly irritating to skin; slightly toxic by dermal absorption. |
| Eye Contact: | Severely irritating. |
| Ingestion: | Moderately toxic and may be harmful if swallowed. |
| Carcinogen Status: | OSHA – No NTP – No IARC – No |

4. FIRST AID MEASURES

| | |
|---------------------|--|
| Eye Contact: | Flush eyes thoroughly with water. If irritation or adverse symptoms develop, seek medical attention. |
| Skin Contact: | Wash with soap and water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention. |
| Inhalation: | Remove from exposure. If breathing is difficult or irritation develops, seek medical attention. |
| Ingestion: | If subject is conscious, give two glasses of water and induce vomiting. Seek medical attention. |
| Notes to Physician: | No specific antidote. Treat symptomatically and supportively. |

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5. FIRE FIGHTING MEASURES

| | |
|----------------------------|--|
| Flash Point: | 220°F (104°C) |
| Extinguishing Media: | Regular dry chemical, carbon dioxide or foam. |
| Fire Fighting: | Move product from fire area if you can without risk. Use normal firefighting procedures. Avoid breathing vapors. |
| Fire and Explosion Hazard: | Negligible fire hazard when exposed to heat or flame. |
| Products of Combustion: | Carbon oxides. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|------------------------|---|
| Evacuation and Safety: | Wear appropriate protective gear for the situation. See personal protection information in Section 8. |
| Containment of Spill: | Occupational Spill: Stop leak if you can. Absorb with inert material. |
| Cleanup and Disposal: | Dispose of by using non-sparking equipment in accordance with local, state and federal regulations. Use caution as the product creates slippery surfaces. |

7. HANDLING AND STORAGE

| | |
|-----------|---|
| Handling: | Avoid skin and eye contact and breathing vapors. Wash thoroughly after handling. Launder contaminated clothing before re-use. |
| Storage: | Observe all federal, state, and local regulations when storing this product. Store in well ventilated area in closed container. |

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. |
| Respiratory: | Respirator not generally required. In case of spill or leak resulting in unknown concentration, use NIOSH approved self-contained breathing apparatus (SCBA). |
| Hands and Feet: | Wear appropriate protective gloves and boots. |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|----------------------------|
| Description: | White to yellowish liquid. |
| Odor: | Slight |
| Boiling Point: | 445°F (230°C) |
| Melting Point: | Not available |
| Molecular Weight: | Not available |
| Specific Gravity (H ₂ O=1): | 1.10 g/cc |
| pH: | Neutral |
| Water Solubility: | Soluble |
| Vapor Density (Air=1): | 9.13 lb/gal |
| Vapor Pressure: | 14.7 psia@70°F (21°C) |
| Viscosity: | Not available |

10. STABILITY AND REACTIVITY

| | |
|---------------------------|---|
| Stability and Reactivity: | Stable under normal temperatures and pressures. |
| Incompatibilities: | None known. |
| Hazardous Decomposition: | Thermal decomposition products may include carbon oxides. |
| Polymerization: | Will not occur. |
| 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: | Not determined |
| CERCLA: | Not regulated |
| OSHA Process Safety: | Not determined |
| 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.