



## Material Safety Data Sheet (MSDS)

Revision Number: 1.0		Last updated February 2004	
<b><u>Product and Company Identification</u></b>			
Product Name:		PYBOP Benzotriazole-1-Yl-Oxy-Trispyrrolidinophosphonium Hexafluorophosphate	
Catalog Number:		21663	
Unit Size:		5 mg	
Manufacturer/Supplier:		AnaSpec, Inc. 2149 O'Toole Avenue San Jose, CA 95131 Tel: 408-452-5055 Fax: 408-452-5059 <a href="http://www.anaspec.com">http://www.anaspec.com</a> e-Mail: <a href="mailto:service@anaspec.com">service@anaspec.com</a>	
<b><u>Composition / Information on Ingredients</u></b>			
Benzotriazole-1-Yl-Oxy-Trispyrrolidinophosphonium Hexafluorophosphate			
Molecular Formula: C <sub>18</sub> H <sub>28</sub> F <sub>6</sub> N <sub>6</sub> OP <sub>2</sub>			
Molecular Weight: 520.4			
CAS#: 128625-52-5			
<b><u>Hazards Identification</u></b>			
Emergency Overview: Irritant. Causes eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.			
Potential Health Effects & First Aid Measures			
Inhalation:		Causes respiratory tract irritation. May be harmful if inhaled. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.	
Ingestion:		May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.	
Skin:		Causes skin irritation. May be harmful if absorbed through the skin. In case of contact, immediately wash skin with soap and copious amounts of water.	
Eyes:		Causes eye irritation .In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.	

<i>Chronic Exposures:</i>	Not determined
<i>Target Organs:</i>	Respiratory system, eyes and skin.
<b><u>Fire Fighting Measures</u></b>	
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.	
<i>Extinguishing media:</i>	Water spray, carbon dioxide, dry chemical powder or appropriate foam.
<i>Special firefighting procedures:</i>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<i>Unusual fire and explosions hazards:</i>	Emits toxic fumes under fire conditions.
<b><u>Accidental Release Measures</u></b>	
Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.	
<b><u>Handling and Storage</u></b>	
<b>Handling:</b> Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation. Store protected from light. Wash clothing before reuse. <b>Storage:</b> Keep container closed when not in use. Keep refrigerated. (Store below 4°C/39°F.) Store protected from light.	
<b><u>Exposure Controls / Personal Protection</u></b>	
Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.	
<b><u>ACGIH/OSHA Permissible Exposure Limit Data:</u></b>	
Not listed	
<b><u>Physical and Chemical Properties</u></b>	
<i>Form:</i>	Solid
<i>Odor:</i>	Not determined
<i>Specific Gravity:</i>	Not determined
<i>pH:</i>	Not determined
<i>Boiling Point:</i>	Not determined
<i>Melting Point:</i>	145-160 °C
<i>Flash Point:</i>	Not determined
<i>Vapor Pressure:</i>	Not determined
<b><u>Stability and Reactivity</u></b>	
<i>Stability</i>	May decompose when exposed to light, Moisture sensitive.
<i>HAZARDOUS DECOMPOSITION PRODUCTS</i>	Nitrogen oxides, carbon monoxide, oxides of phosphorus, carbon dioxide, nitrogen gas, hydrogen fluoride gas.
<i>HAZARDOUS POLYMERIZATION</i>	Will not occur
<b><u>Toxicological Information</u></b>	
<i>RTECS Number:</i>	None known

<i>Toxicity:</i>	We are not aware of any toxicity data for this product.
<i>Health Hazards:</i>	Not thoroughly investigated.
<i>Potential Hazards:</i>	Causes skin irritation. Causes eye irritation. Causes respiratory tract irritation. May be harmful if inhaled.
<i>Carcinogenicity:</i>	Not listed by NTP, IARC or OSHA.
<b><u>Ecological Information</u></b>	
Do not allow product to reach ground water, water course, or sewage system.	
<b><u>Disposal Considerations</u></b>	
Consult local, state or national regulations for proper disposal.	
<b><u>Transport Information</u></b>	
<i>Hazard Class:</i>	Not regulated.
<i>Identification Number:</i>	Not determined
<i>Packing Group:</i>	Not classified
<i>Proper Shipping Name (Technical Name):</i>	Not determined
<b><u>Regulations</u></b>	
<i>US Toxic Substances Control Act (TSCA):</i>	None of the chemicals in this material have a SNUR under TSCA
<i>US Other:</i>	None of the chemicals in this product are considered highly hazardous by OSHA
<i>EEC EINECS Number:</i>	Not identified
<i>Other Country Regulations:</i>	None identified
<i>EEC Risk Statements:</i>	Not determined
<b><u>Other Information</u></b>	
<p><i>This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. Anaspec shall not be held liable for any damage resulting from handling or from contact with the above product.</i></p>	