# BIOTECH
# MATERIAL SAFETY DATA SHEET

**SECTION 1: PRODUCT AND MANUFACTURER'S IDENTIFICATION**

**Manufacturer: BIOtech Products LLC**
**1578 Sussex Turnpike**
**Building 4**
**Randolph, NJ 07869**

**Information Phone: 973-598-0044**
**Emergency Phone: 973-978-5858**

**Product Name: BIOchem C-3 PR65**
**Product Code: C-3 PR65 Powder**
**CAS #: MIXTURE**
**Chemical Family: Organo - Titanates – Quat - POWDER FORM**

**SECTION 2: COMPOSITION/INFORMATION ON COMPONENTS**

**Chemical Name: Titanate (3-), [*P*,*P*- bis(2-ethylhexyl) diphosphato (2-)-κO´´]**
**bis[*P,P-bis (*2-ethylhexyl*)* diphosphato (2-) -κO´´, κO´´´´]**
**[2,2-bis[ (2-propenyloxy) methyl]-1-butanolato-κO]-, trihydrogen,**
**compd. with N-[3-(dimethylamino) propyl] -2-methyl -2- propenamide**
**(1:3) . . . . . CAS #117002-37-6 . . . . . 65%**
**Hydrated Amorphous Silica . . . . . .CAS # 112926-00-8 . . . . . .35%**

**SECTION 3: HAZARDS IDENTIFICATION**

**Emergency Overview: Off-white-tan powder with an alcoholic odor. It presents little or no immediate significant hazard if spilled. It presents no unusual hazard if involved in a fire, however, upon thermal decomposition it may emit toxic fumes.**

**Breathing: This substance has the potential of being a respiratory tract irritant.**

**Skin Contact: Prolonged or repeated skin contact may cause skin irritation.**

**Eye Contact: Contact with eyes will cause eye irritation.**

**Swallowing: May be harmful if swallowed.**

**Inhalation: There is a potential for irritation of the respiratory tract.**

**Long Term Health Effects: Not known.**

**Conditions Aggravated by Exposure: Not known.**

**Original MSDS: JULY 2009**

**SECTION 4: FIRST AID MEASURES**

**Skin: Wash with soap and water. Get medical attention if irritation develops or persists.**

**Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart. Get immediate medical attention if irritation or other symptoms develop.**

**Swallowing: Get immediate medical attention. Never give anything by mouth to an unconscious person.**

**Breathing: If exposed to excessive levels of vapors or mists, remove to fresh air and get immediate medical attention if cough or other symptoms develop.**

**SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point. . . . . .N/A**
**Method . . . . . .TCC**
**Lower Explosive Point . . . . . Not determined**
**Upper Explosive Point . . . . . Not determined**
**Auto-Ignition Temperature . . . Not determined**
**Extinguishing Media . . . . . Foam, $CO_2$, Dry Chemical, Water spray**

**Firefighting Procedure: Evacuate area and fight fire from a safe distance. Wear self-contained breathing apparatus pressure-demand (MHSA/NIOSH approved or equivalent) and full protective gear.**

**Special Firefighting Procedure: As with any fire, wear self-contained breathing apparatus pressure-demand (MHSA/NIOSH approved or equivalent) and full protective gear. Use caution when using water as frothing may occur and thereby increasing fire intensity.**

**Unusual Fire and explosion Hazards . . . May emit toxic fumes upon thermal decomposition.**

**Sensitivity to Explosion by Mechanical Impact . . . . .None**

**Sensitivity to Explosion by Static Discharge . . . . . Potential exists**

**Conditions of Flammability . . . . .Material will burn - avoid sources of ignition and also avoid temperatures that are within range of the flash point.**

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**General. . . . . .This material should be prevented from contaminating soil for from sewerage and drainage systems and bodies of water. Isolate hazard/spill area. Keep unnecessary and unprotected personnel from enter area.**

**Small Spill . . . . Absorb spill with inert material, then place in a chemical waste container.**

**Large Spill . . . .Shut off leak, if safe to do so. Clean up spills immediately, observing precautions in**
**Protective Equipment Section. Contain spilled liquid with sand or earth.**

**Retain all contaminated water and soil for removal and treatment.**

**SECTION 7: HANDLING AND STORAGE**

**Handling. . . . .Although this material does not present a significant skin or eye hazard, skin and eye contact should be prevented as good industrial hygiene practice. Wearing of protective gloves and eye protection is recommended. Always establish the practice of washing arms and hands, as with any chemical, after handling.**

**Storage. . . . .Store in a cool, dry and well ventilated area. Avoid contact or exposure to incompatible substances. Also avoid those areas where there are ignition sources.**

**SECTION 8: EXPOSURE CONTROLS - PERSONAL PROTECTION**

**Exposure Levels:**

| | OSHA | | ACGIH | |
|---|---|---|---|---|
| **Component** | **TWA** | **STEL** | **TWA** | **STEL** |
| **117002-37-6** | **Not Established** | | **Not Established** | |
| **112926-00-8** | **5 mg/M3** | | **5 mg/M3** | |

**Engineering Controls: Source(s) of fine spray, mist or vapor should be controlled with local exhaust ventilation.**

**Respiratory Protection: A NIOSH/MHSA approved air purifying respirator may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, if established. Consult with respirator's manufacturer to determine the appropriate type of equipment for a given application. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.**

**Eye/Face Protection: Always use safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.**

**Skin Protection: Wear impervious gloves and chemical protective clothing, including impervious sleevelets, overalls, aprons, or boots as needed to prevent contact with the skin.**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance . . . . . .Off-White—Tan powder**
**Odor . . . . . Alcoholic**
**Boiling Range . . . . . 220°F base LICA 38J liquid**
**Specific Gravity (relative to water) . . . . .1.29 @ 77°F**
**Vapor Density (relative to air) . . . . . .Heavier than air**
**Vapor Pressure (mm Hg) . . . . . .Not established**
**pH . . . . . 7.5**
**Solubility in Water . . . . . Yes**
**Freezing/Melting Point . . . . . Not established**
**Octanol/Water Partition Coefficient . . . . .Not established**
**Odor Threshold . . . . . Not established**
**Flash Point (TCC) . . . . . 131°F . . . . . 55°C base LICA 38J liquid**
**Auto-Ignition Temperature . . . . . Not established**
**Explosive Properties . . . . . .Not established**
**Oxidizing Properties . . . . . .None**
**Viscosity @ 77° . . . . . .5100 cps base LICA 38J liquid**
**Evaporation Rate (relative to n-butyl acetate). . . .Slower**

**SECTION 10: STABILITY AND REACTIVITY**

**Stable . . . . . Yes**

**Strong Oxidizer . . . . . .No**

**Hazardous Polymerization . . . . . .May occur at elevated temperatures.**

**Incompatibility . . . . . .Oxidizers, acids, alkaline materials, free radical initiators, ultraviolet light.**

**Conditions to Avoid . . . . .Keep from contact with oxidizers, acids, alkaline materials. Avoid sources of ignition, UV light and elevated temperatures.**

**Hazardous Decomposition Products . . . . . Oxides of carbon and phosphorous.**

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Base Component:**
**Oral LD50 . . . . . >2.5g/kg -- <5.0g/kg**
**Primary Dermal Irritation. . . . 0.6**
**Non-mutagenic - Ames test with S-9 activation**

**Amine QUAT**
**Primary Skin - 1.1-slightly irritating.**
**Irritation cleared by 72 hours.**

**DMAPMA Component:**
**Oral LD50. . . . . 3334 mg/kg (Rat)**
**Acute Dermal (LD50) . . . . . 2355 mg/kg (Rabbit)**
**Draize Eye . . . . . Highly irritating (Rabbit)**
**Draize Skin . . . . Non-Irritant, non-sensitizing (Rabbit)**

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicological and Chemical Fate Information . . . . .Not determined.**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal . . . . . .Dispose of in accordance with all federal, state and local regulations.**

**Container Disposal . . . . Dispose of in accordance with all federal, state and local regulations.**

**SECTION 14: TRANSPORT INFORMATION**

**DOT Shipping Name . . . . . .Not regulated**
**Hazard Class . . . . . .**
**Packing Group . . . . . .**
**UN/NA No. . . . . .**
**DOT Labels . . . . . .**
**Subsidiary Label . . . . . .None**
**DOT Placard . . . . . .(BULK) . . . . . .**

**IMO Shipping Name . . . . . .Not regulated**
**Hazard Class . . . . . .**
**Packing Group . . . . . .**
**UN No. . . . . .**
**IMO Labels . . . . . .**
**Subsidiary Label . . . . . None**

**IATA Shipping Name . . . . . .Not regulated**
**Hazard Class . . . . . .**
**Packing Group . . . . . .**
**UN No. . . . . .**
**IATA Labels . . . . . .**
**Subsidiary Label . . . . . None**

**SECTION 15: REGULATORY INFORMATION**

**SARA 311/312 Chronic Health Hazard . . . . . Not determined**
**SARA 311/312 Acute Health Hazard . . . . . Irritant**
**SARA 311/312 Fire Hazard . . . . . Combustible**
**SARA 311/312 Sudden Pressure . . . . . No**
**SARA 311/312 Reactivity Hazard . . . . . No**

**SECTION 15: REGULATORY INFORMATION (continued)**

**Section 302 - Extremely Hazardous Ingredient(s) . . . . . .None**

**CERCLA Hazardous Substance(s) . . . . . None**

**Section 313 Toxic Chemical(s) . . . . . None**

**NJ Environmental Hazardous Substances List . . . . . Not Listed**

**Other States Listings . . . . . .Not listed to our knowledge.**

**California Proposition 65 Ingredients . . . . . None**

**Reported in TSCA Inventory . . . . . .YES**

**TSCA Rulings . . . . . .None to our knowledge.**

**Reported in EEC Inventory . . . . . No**

**Reported in Canada Inventory . . . . . No**

**SECTION 16: OTHER INFORMATION**

**HMIS Hazard Rating . . . . . Health = 2 ; Fire = 2 ; Reactivity = 1 ;**

**NFPA Hazard Rating . . . . . Health = 2 ; Fire = 2 ; Reactivity = 1 ;**

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