

**MATERIAL SAFETY DATASHEET**

BioStim LLC.  
8718 Botts LN  
San Antonio, TX 78217  
5977

**DATE:** January 1, 2003

**FOR EMERGENCY CALL:** (210) 821-5977

---

**SECTION I IDENTIFICATION**

---

Trade Name: KB-4F  
Chemical Family: Lyophilized bacterial cultures  
Chemical name: No ICU for this mixture is known to exist.  
D.O.T. Hazard Class: Not applicable  
D.O.T. Label (s): Not applicable  
D.O.T. Proper Shipping Name: Chemical not otherwise indexed [NOI], non hazardous

---

**SECTION II PRODUCT COMPOSITION**

---

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>	<u>TLV(ACGIH)</u>
Bacterial Cultures	N/A	Gt. 99%	N/A

Ingredients are proprietary. No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

---

**SECTION III PHYSICAL DATA**

---

**Boiling Point:** no data  
**Vapor pressure (mm Hg):** no data  
**Vapor Density:** no data  
**Solubility in Water:** moderate - contains viable bacteria  
**Appearance and odor:** free flowing powder and yeast like odor

**Bulk Density:** about 0.66 - 0.77 gm/cm<sup>3</sup>  
**Surface Tension (DYNES/ CM @ 25 C):** n/a  
**Evaporation Rate ( Butyl acetate = 1 ) :** n/a  
ph : 6.5 - 8.5 color: tan - black

---

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

---

**Flash point:** no data  
**Flammable limits in air by volume:** lower - no data  
**Extinguishing Media:** water spray, carbon dioxide, dry chemical  
**Special Firefighting Procedures:** none  
**Unusual Fire and Explosion Hazards:** None known

**Method used:**  
**Upper:** no data

---

**SECTION V REACTIVITY DATA**

---

**Stability:**

Stable under normal conditions.

**Incompatibility** (materials to avoid):

Strong acids or alkali compounds may inactivate product

**Hazardous decomposition or byproducts:**

None

**Hazardous polymerization:**

Will not occur.

---

**SECTION VI HEALTH HAZARD ASSESSMENT**

---

**Inhalation Health Risks and Symptoms of Exposure:**

Product may produce nuisance dust which will irritate respiratory passages.

**Eye Contact Health Risks and Symptoms of Exposure:**

This material may cause eye irritation. Organisms used are nonpathogenic but can cause infection when in contact with open wounds. These organisms are susceptible to many commonly-used antibiotics.

**Skin Absorption Health Risks and Symptoms of Exposure:**

Slight redness on hands and forearms, if individual has a history of dermal allergic reaction. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact with human skin. Systematically toxic concentrations will probably not be absorbed through the skin in man.

**Ingestion Health Risks and Exposures:**

Drink water or milk to dilute. Induce vomiting only if advised by physician or poison control center. Consult a physician or poison control center immediately. Treat symptoms

**Inhalation:** Can cause allergic type response susceptible or hypersensitive individuals upon repeated or prolonged exposure.

**Other effects of overexposure:**

None known

**First-aid procedures:**

<b>Skin:</b>	Remove contaminated clothing and footwear. Wash material off the skin with plenty of soap and water. Wash clothing and footwear before reuse.
<b>Eyes:</b>	Immediately flush with plenty of water for at least 15 min., and have eyes examined and treated by medical personnel.
<b>Inhalation:</b>	Remove victim to fresh air.
<b>ingestion:</b>	Drink water or milk to dilute. Induce vomiting only if advised by physician or poison control center. Call poison control center.

---

**SECTION VII SPILL OR LEAK PROCEDURES**

---

**Steps to be taken in case material is released or spilled:**

Wear approved respirator for nuisance dust during cleanup. For small spills, flush to waste treatment sewer product is biodegradable). For large spills, contain and collect for reuse.

**Disposal method:**

Disposal of this products residues must be in accordance with all local, state, and federal requirements.

---

**SECTION VIII SPECIAL PROTECTION INFORMATION**

---

**TLV or suggested control value:**

No TLV assigned to this mixture. Control of exposure to below the TLV for the ingredients (see

## SECTION II) will

be sufficient. Minimize exposure in accordance with good hygiene practice. To maintain shelf life, avoid prolonged

exposure to high temperatures and humidity. The ACGIH avoid prolonged exposure to high temperatures and

humidity. The ACGIH TLV's shown in SECTION II are OSHA PEL's (Permissible Exposure Limits).

**Ventilation:**

General mechanical ventilation.

**Respiratory protection (specify type):**

None required for recommended use. Avoid creating aerosols in poorly ventilated areas.

**Protective clothing:**

None required.

**Eye protection:**

Chemical type face shield recommended.

**Other protective equipment:**

Eyewash station in work area.

---

**SECTION IX SPECIAL PRECAUTIONS OR OTHER COMMENTS**

---

**Precautions to be taken in handling or storing:**

Prevent skin and eye contact. Avoid creating aerosol. Wash hands thoroughly with soap and water after use.

---

**KEEP OUT OF REACH OF CHILDREN**

---

---

**SECTION X SPECIAL PRECAUTIONS OR OTHER COMMENTS**

---

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH IN THIS SHEET ARE BELIEVED TO BE CORRECT AS OF THE DATE HEREOF BIOSTIM, LLC. MAKES NO REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION AND RECOMMENDATIONS FOR SPECIALTY APPLICATION. BIOSTIM LLC. SHALL IN NO EVENT BE RESPONSIBLE FOR ANY DAMAGES OF WHATSOEVER NATURE DIRECTLY OR INDIRECTLY RESULTING FROM THE PUBLICATION OR USE OF OR RELIANCE UPON SUCH INFORMATION AND RECOMMENDATIONS FOR SPECIALTY APPLICATION. YOU ARE ENCOURAGED TO ADVISE ANYONE WORKING WITH OR EXPOSED TO SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

ADDITIONALLY, SINCE ACTUAL USE BY OTHERS IS BEYOND OUR CONTROL, NO GUARANTEE, EXPRESS OR IMPLIED, IS MADE BY BIOSTIM, LLC. AS TO THE EFFECT OF SUCH USE, THE RESULTS

TO BE OBTAINED, OR THE SAFETY AND TOXICITY OF THE PRODUCT NOR DOES BIOSTIM, LLC. ASSUME ANY LIABILITY ARISING OUT OF USE, MISUSE, BY OTHERS, OF THE PRODUCT REFERRED TO HEREIN.

INFORMATION PROVIDED HEREIN IS PROVIDED BY BIOSTIM LLC. SOLELY FOR CUSTOMER'S ASSISTANCE IN COMPLYING WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND REGULATIONS THERE UNDER. ANY OTHER USE IS PROHIBITED.

---