

MATERIAL SAFETY DATASHEET

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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 ph : 6.5 - 8.5 color: tan - black
Appearance and odor: free flowing powder and yeast like odor

Bulk Density: about 0.66 - 0.77 gm/cm³
Surface Tension (DYNES/ CM @ 25 C): n/a
Evaporation Rate (Butyl acetate = 1) : n/a

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:

Skin: Remove contaminated clothing and footwear. Wash material off the skin with plenty of soap and water. Wash clothing and footwear before reuse.

Eyes: Immediately flush with plenty of water for at least 15 min., and have eyes examined and treated by medial personnel.

Inhalation: Remove victim to fresh air.

ingestion: 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

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