



Blue Valley Laboratories, Inc.

Water Treatment Professionals Since 1973

814 East 16th Street Kansas City, MO 64108
Phone (816) 471-4719 Fax (816) 471-0268

Material Safety Data Sheet

Bacteria/Enzyme Mixture:

Formulas 8000 to 8049: Dry Bacteria as a loose powder or in dissolvable packets

DATE PREPARED: March 1997

Chemical Family:Bacterial/Enzyme Mixture

Chemical NameN/A

D.O.T. Hazard Class:N/A

D.O.T. Label(s):N/A

D.O.T. Proper Shipping Name: Chemicals not otherwise indexed (NOI), non hazardous

Product Composition:

INGREDIENT	CAS NO.	PERCENT	TLV (ACGIH)
Bacterial Subtilisin Protease	9014-01-1	< 1%	0.06 mcg/m3
Linear Alcohol Ethoxylate	34398-01-1	5%	N/E
Bacterial Cultures	(on oat bran	>59%	N/E
Bacterial Complex	68920-42-3		N/E
Amylase	9000-90-5		N/E
Lipase	9001-62-1		N/E
Cellulase	9012-54-8		N/E
Sodium Bicarbonate	144-55-8	20%	N/E
Disodium Phosphate	7558-79-4	10%	N/E
Monosodium Phosphate	7558-80-7	5%	N/E

Ingredients not precisely identified are proprietary or non hazardous. Values are not product specifications.

Physical Data:

Appearance:Amber to tan in color

Evaporation Rate:N/A

Odor:Fermentation odor

pH: 6.0 - 8.0

Boiling Point:..... N/A

Specific Gravity:..... N/A

Solubility In Water:Dispersible in water

Fire and Explosion Data:

Flash Point: Not determined Ignition Temperature: N/A

Flammable Limits: N/A Unusual Fire And Explosion Hazards: None known.

Extinguishing Media: No special requirements; water and foam are suitable.

Special Fire Fighting Procedures: No distinctively hazardous decomposition products are known to exist, nor are there special fire fighting requirements; however, self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Reactivity Data:

Stability: Stable under normal conditions.

Incompatibility: Strong acids or alkali may inactivate biological cultures.

Hazardous Decomposition Products: None; Hazardous Polymerization: Will not occur.

Health Hazard Data:

General: Limited toxicity data are available on this specific product; this health hazard assessment is based on the results of screening tests.

Ingestion: No effect if ingested in small amounts. Relative to other materials, single dose is rarely toxic by ingestion. Irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.

Eye Contact: Material may cause eye irritation. Organisms used are nonpathogenic but can cause infection when in contact with open wounds. Organisms are susceptible to many commonly used antibiotics.

Skin Contact: 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.

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

Other Effects Of Exposure: None known.

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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 use.

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

Spill, Leak, And Disposal Procedures:

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 of this product or its residues must be in accordance with all local, state and federal requirements.

Special Protection Information:

TLV or suggested control value: No TLV assigned to this mixture. Control of exposure to below the TLV for the ingredients 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 TLV's are OSHA Permissible Exposure Limits.

Ventilation: General mechanical ventilation.

Respiratory Protection: 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.

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

Special Notes:

The information on this material safety data sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the normal conditions for use. Since data, safety standard, and government regulations are subject to change; Blue Valley Laboratories, Inc. makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Any use of this product or method of application which is not described in the product data sheet is the responsibility of the user. Solely for customer's assistance in complying with the occupational safety and health act of 1970 and regulations thereunder. Any other use is prohibited.