

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor


Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Powder Based Bacterial Mixture (Includes the following brand-name formulations: StartSmart Activator, PondPerfect Activator, PitMaster Activator, OdorMaster Activator, EcoBac, EcoClear, Septic Medic Power Pack, and EcoSock. All formulations are based on the ingredients and bacterial species disclosed herein. Exact quantity and ratios of these non-hazardous, non-toxic ingredients are proprietary)

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's name	Emergency Telephone Number 216-472-3030
TLC Products. P.O. Box 45301 Westlake, OH 44145. USA.	Telephone Number for Information 216-472-3030
	Date Prepared August 12, 2012
Emergency Contact Person: John M. Wong, Preparer of Document	Signature of Preparer (optional) 

Section II. A. Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
None				

Section II. B. Other Ingredients / Identity Information

Freeze-Dried Bacterial Ingredients. All bacteria listed below are classified as Biosafety Level 1 by the American Type Culture Collection. The specific ATCC numerical identification for each bacterial species is shown (ATCC Number). These bacteria are ubiquitous (found everywhere in the world) and do not pose danger.

Bacillus licheniformis, ATCC 12759
Bacillus amyloliquefaciens, ATCC 23842
Bacillus subtilis, ATCC 29056
Pseudomonas stutzeri, ATCC 11607
Nitrobacter winogradskyi, ATCC 25391
Nitrosomonas europaea, ATCC 25978

The listed bacteria are each found in all Powder-Based Bacterial products (noted above). The exact concentration, ratios, and mix of each bacterial species depends on the formulation and is proprietary.

Food Grade Bacterial Nutrients

Food-grade bacterial nutrients remain in solution with the live bacteria, including varying amounts of the following: dipotassium phosphate, ammonium chloride, magnesium sulfate, sodium chloride, sodium bicarbonate, sodium citrate, glucose, Xanthan Gum, gelatin protein, and autolysed yeast extract.

The listed nutrients are each found in all products listed above. The exact amounts and ratios of each nutrient depends on the formulation and is proprietary.

Section III—Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	0.85 to 1.15
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Vapor Pressure (mm Hg) N/A		Melting Point N/A	
Vapor Density (AIR = 1) N/A		Evaporation Rate (Butyl Acetate = 1) H2O	
Solubility in Water Completely miscible			
Appearance and Odor Light brown, powder. Musty odor.			

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures N/A			
Unusual Fire and Explosion Hazards N/A			

(Reproduce locally)

OSHA 174 Sept. 1985

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid No known conditions to avoid.
	Stable		Completely stable. Will not polymerize, or undergo other reactions.
Incompatibility No known incompatibilities with other compounds or chemicals.			
Hazardous Decomposition or Byproducts Will not decompose.			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur		Polymerization will not occur.

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? N/A	Skin? Avoid contact with open wounds.	Ingestion? Do not ingest.
Health Hazards Ingestion may cause diarrhea.			
Carcinogenicity None	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure None, N/A			
Medical Conditions Generally Aggravated by Exposure none known			
Emergency and First Aid Procedures Wash eyes with water for 10 minutes if accidentally contacted with eyes.			

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled Spilled product may be put into drain or sewer or toilet. Rinse area briefly with water.

Typically, dispose of as yard waste.

Waste Disposal Method Dispose of as yard waste.

Precautions to Be Taken in Handling and Storing Use of rubber gloves, basic filter mask, and eye shield recommended. Do not ingest. Do not permit contact with open wounds.

Other Precautions None required.

Section VII—Control Measures

Respiratory Protection Use basic face filter mask when handling

Ventilation	Local Exhaust	N/A	Special
	Mechanical	N/A	Other

Protective Gloves Latex or rubber gloves recommended. Eye Protection Eye goggles or face shield recommended.

Other Protective Clothing or Equipment None required

Work/Hygienic Practices If contact with skin occurs wash affected area with soap and water.
