

## Materials Safety Data Sheet

### Section 1 – Product Identification

Trade Name: Advanced Microbes 101

Description: A blend of liquid naturally occurring bacteria and fungi.

NFPA 704M/HMIS Rating: 1/1 Health 0/0 Flammability 0/0 Reactivity 0 Other

0=insignificant 1=slight 2=moderate 3=high 4=extreme

### Section 2 – Hazardous Ingredients

Our hazard evaluation of the ingredient(s) under OSHA's Hazard Communication Rule, 29 CFR 1910.1200 has found none of the ingredient(s) hazardous.

### Section 3 – Precautionary Label Information

CAUTION: May cause irritation to skin and eyes. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

### Section 4 – First Aid Information

EYES: Flush with water for 15 minutes. Call a physician.

SKIN: Wash thoroughly with soap and rinse with water. Call a physician.

INGESTION: Do not induce vomiting. Give Water. Call a physician.

INHALATION: Remove to fresh air. Treat symptoms. Call a physician.

Note to Physician: No specific antidote is known. Based on the individual reactions of the Patient, the physician's judgment should be used to control symptoms and clinical condition.

Caution: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

### **Section 5 – Health Effects Information**

Primary Route(s) of Exposure: Eye, Skin

Eye Contact: May cause irritation with prolonged contact.

Skin Contact: May cause irritation with prolonged contact. Can cause allergic contact dermatitis in susceptible individuals.

Ingestion: Can cause nausea and diarrhea.

Inhalation: Can cause an allergic reaction in susceptible individuals.

Symptoms of Exposure: A review of available data does not identify any symptoms from exposure.

Aggravation of Existing Conditions: A review of available data does not identify any worsening of existing conditions.

### **Section 6 – Toxicology Information**

Acute Toxicity Studies: No toxicity studies have been conducted on this product.

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## Section 7 – Physical and Chemical Properties

Color: Tan to flesh colored      Form: Liquid      Odor: Sour Milk  
Solubility: Extremely soluble      Flash Point: None

## Section 8 – Fire and Explosion Information

Flash Point: None  
Extinguisher Media: Not applicable

## Section 9 – Reactivity Information

Incompatibility: None known  
Storage: Storage temperature should be between 40° and 70°F.

Thermal Decomposition Products: In the event of combustion, CO and CO<sub>2</sub> may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

## Section 10 – Personal Protection Equipment

Respiratory Protection: If it is possible to generate dust, wear a NIOSH approved or equivalent dust respirator, (see ANSI Z 88.2, 1980 for requirements and selection).

Protective Equipment: Use impermeable gloves and chemical splash goggles (see ANSI Z 87.1 for requirements and selection of gloves, goggles, shoes, etc.) when attaching feeding equipment, doing maintenance or handling product.

If clothing is contaminated, remove clothing and thoroughly wash the affected area.  
Launder contaminated clothing before reuse.

## **Section 11 – Spill and Disposal Information**

Spill Control Recovery:

Solid Spills: Sweep or vacuum up and reclaim into recovery container for disposal. Wear the protective equipment specified in Section 10. Refer to CERCLA in Section 14

Disposal: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recover Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, (i.e., D001 through D017) nor is it listed under Subpart D.

As a non-hazardous solid waste, it can be disposed of in an industrial waste landfill in accordance with local, state and federal regulations.

## **Section 12 – Environmental Information**

If released into the environment, see CERCLA in Section 14.

## **Section 13 – Transportation Information**

DOT PROPER SHIPPING NAME/HAZARD CODE: Product is not regulated during transportation.

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## Section 14 – Regulatory Information

The following regulations apply to this product.

Federal Regulations:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, this product is not hazardous.

CERCLA/SUPERFUND, 40 CFR 117, 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE 111) –  
SECTIONS 302, 311, 312 AND 313.

SECTION 302 – EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTION 311 AND 312 – MATERIAL SAFETY DATA SHEET

REQUIREMENTS (40CFR 370): Our hazard evaluation has found that this product is not hazardous under 29 CFR 1910.1200.

Under Section 311, submittal MSDS's or a list of product names to the local emergency planning commission, state emergency response commission and local fire department is required after October 17, 1987 if you have:

- 10,000 pounds or more of a hazardous substance, or
- 500 pounds or the threshold planning quantity, whichever is less, of an extremely hazardous substance.

SECTION 313 – LIST OF TOXIC CHEMICALS (40 CFR 372): This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

Toxic Substances Control Act (TSCA): The chemical ingredients in the product are on the 8(b) Inventory List (40 CFR 710)

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: If this product becomes a waste, it does not meet the criteria of a hazardous waste.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT 40 CFR 401.15/formerly Sec. 307, 40 CFR 116/formerly Sec 311: None of the ingredients are specifically listed.

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112: This product does not contain ingredients covered by the Clean Air Act.

### **State Regulations:**

California Proposition 65:

None of the chemicals on the current Proposition 65 list are known to be present in this product.

Michigan Critical Materials:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

State Right To Know Laws

This product does not contain ingredients listed by State Right To Know Laws.

International Regulations:

This is not a WHMIS controlled product under the House of Commons of Canada Bill C-70.

### **Section 15 – Additional Information**

None

### **Section 16 – Unser's Responsibility**

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your sales representative for any further information.

### **Section 17 – Bibliography**

ANNUAL REPORT ON CARCINOGENS, U.S. Department of Health and human Service, Public Health Service, PB 33-135855, 1983.

CASARETT AND DOULL'S TOXICOLOGY, THE BASIC SCIENCE OF POISONS, Doull, J., Klaassen, C.D., and Admur, M.O., eds., Macmillan Publishing Company, Inc., N.Y., 2<sup>nd</sup> edition, 1980.

CHEMICAL HAZARDS OF THE WORKPLACE, Proctor, N.H., and Hughes, J.P., eds, J.P. Lipincott Company, N.Y., 1981.

DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, Sax, N. Irving, ed., Van Nostrand Reinhold Company, N.Y., 6<sup>th</sup> edition, 1984.

IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO MAN, Geneva: World Health Organization, International Agency for Research on Cancer, 1972-1977.

PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY, Clayton, G.D., Clayton, F. E., eds., John Wiley and Sons, N.Y., 3<sup>rd</sup> edition, Vol 2 A-C, 1981.

REGISTRY OF TOXIC EFFECT ON CHEMICAL SUBSTANCES, U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, 1983 supplement of 1981 – 1982 edition, Vol. 1-3, OH, 1984.

Title 29 Code of Federal Regulations Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA).

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, American Conference of Governmental Industrial Hygienists, OH.