

**Kasco, Inc.**

## MATERIAL SAFETY DATA SHEET

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### SECTION 1 PRODUCT INFORMATION

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**BRAND NAME:** DATE WRITTEN: 5/18/07  
**PRODUCT NAME:** MACRO-ZYME PLUS  
**CHEMICAL NAME:** MIXTURE CONTAINING BACILLUS sp. BACTERIA  
**CAS NUMBER:** NONE - MIXTURE  
**NFPA (704) RATING:** HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 SPECIAL 0  
**This product contains species of bacteria listed on the Environment Canada DSL list as:**  
**16970-5 Bacillus species/Espèce bacillus**

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### SECTION II HAZARDOUS INGREDIENTS/SARA III INFORMATION

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<b>HAZARDOUS COMPONENTS:</b>		<b>OTHER LIMITS</b>		
<b>NAME</b>	<b>CAS NUMBER</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OTHER % (OPTIONAL)</b>
<b>(NONE)</b>				

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### SECTION III PHYSICAL/CHEMICAL CHARACTERISTIC

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**BULK DENSITY:** 33.2 lbs/fts.  
**SOLUBILITY IN WATER:** WILL DISPERSE  
**VAPOR DENSITY:** N/A

**BOILING POINT:** N/A  
**FREEZE POINT:** N/A  
**BIODEGRADABILITY:** 70 %  
**EVAPORATION RATE:** N/A  
**APPEARANCE AND ODOR:** TAN GRAINY POWDER, YEAST LIKE ODOR.

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### SECTION IV FIRE AND EXPLOSION HAZARD DATA

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**FLASH POINT (METHOD USED):** NOT FLAMMABLE  
**FLAMMABLE LIMITS:** NEGLIGIBLE FIRE HAZARD  
**EXTINGUISHING MEDIA:** ALL STANDARD FIRE FIGHTING MEDIA.  
**SPECIAL FIRE FIGHTING PROCEDURES:** NONE KNOWN  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** NONE KNOWN

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### SECTION V REACTIVITY DATA

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**STABILITY:** STABLE  
**CONDITIONS TO AVOID:** EXTREME HEAT  
**INCOMPATIBILITY (MATERIALS TO AVOID):** STRONG ACIDS OR STRONG BASES.  
**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** NONE KNOWN

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR  
**CONDITIONS TO AVOID:** NONE KNOWN

**PRODUCT NAME: MACRO-ZYME**

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**SECTION VI HEALTH HAZARD DATA**

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**ROUTE(S) OF ENTRY: INHALATION? NO      SKIN? YES      INGESTION? YES      EYES? YES**

**HEALTH HAZARDS (ACUTE AND CHRONIC): NONE KNOWN.**

**CARCINOGENICITY:      NTP? N/A      IARC MONOGRAPHS? N/A      OSHA REGULATED? N/A**  
**SIGNS AND SYMPTOMS OF EXPOSURE: INGESTION: MAY CAUSE GASTRIC DISTRESS AND DIARRHEA**  
**SKIN: MAY CAUSE IRRITATION FOLLOWING PROLONGED SKIN CONTACT.**  
**EYES: WILL CAUSE IRRITATION UPON DIRECT CONTACT.**

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ALLERGIES.**

**EMERGENCY AND FIRST AID PROCEDURES:**

WASH SKIN WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING AND WASH.  
FLUSH EYES WITH WATER FOR 15 MINUTES.  
IF SWALLOWED, DRINK 6 OZ OF MILK TO AID DIGESTION. DO NOT GIVE FLUIDS IF VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS.

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**SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** SWEEP UP SPILL. PUT IN CONTAINER.. DISPOSE OF MATERIAL PER LOCAL, STATE, AND FEDERAL REGULATIONS. SMALL QUANTITIES MAY BE FLUSHED TO SANITARY SEWER.

**WASTE DISPOSAL METHOD:** SMALL QUANTITIES AND LARGE QUANTITIES SWEEP UP AND PUT IN CONTAINER, DISPOSE IN LOCAL LAND FILL PER LOCAL, STATE, AND FEDERAL REGULATIONS. PRESENTS NO HEALTH OR ENVIRONMENTAL HAZARD.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** STORE IN DRY PLACE..

**OTHER PRECAUTIONS:** NONE KNOWN

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**SECTION VIII CONTROL MEASURES**

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**RESPIRATORY PRECAUTION (SPECIFY TYPE): NONE KNOWN**

**VENTILATION:      LOCAL EXHAUST: NOT REQUIRED      SPECIAL: NONE KNOWN**  
**MECHANICAL: NOT REQUIRED      SPECIAL: NONE KNOWN**

**PROTECTIVE GLOVES: NOT REQUIRED**

**EYE PROTECTION: NOT REQUIRED**

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE KNOWN**

**WORK/HYGIENIC PRACTICES: WASH HANDS WITH SOAP AND WATER AFTER USE**

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**ENVIRONMENTAL EVALUATION**

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**EPA SUPERFUND (SARA TITLE III) - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION: NOT HAZARDOUS**

**EPA CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY): NOT LISTED**

**EPA SARA TITLE III, CFI 355 (EXTREMELY HAZARDOUS SUBSTANCES): NOT LISTED**

**EPA SARA TITLE III, 40 CR. 372 (LIST OF TOXIC CHEMICALS) ; NOT LISTED**

**CHEMICALS LISTED ON FOLLOWING CHEMICAL INVENTORIES:**

**TOSCO: NOT LISTED**

**EPA - RCA (HAZARDOUS WASTE), 40 CFI 261: NOT LISTED**

**CALIFORNIA PROPOSITION 65: N/A**

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