

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BROZYME

SUPPLIER'S NAME: BRODI SPECIALTY PRODUCTS LTD.

SUPPLIER'S ADDRESS: 250 COCHRANE DRIVE, UNIT 9, MARKHAM, ON, L3R 8E5

PREPARED BY: MSDS CO-ORDINATOR (877) 744-0751 EXT 205, BRODI SPECIALTY PRODUCTS LTD.

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EFFECTIVE DATE: JANUARY 1st, 2009

SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION	WHMIS CLASS D-2B:
CHEMICAL FAMILY	BACTERIA CULTURES
CHEMICAL FORMULA	MIXTURE
MOLECULAR WEIGHT	NOT APPLICABLE
MATERIAL USE	BIOLOGICAL DIGESTER

SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENT	VIABLE BACTERIA CULTURES (non-pathogenic)
APPROX. CONCENTRATION %	1-10
CAS	NOT AVAILABLE
EXPOSURE LIMITS	NOT AVAILABLE
LD50/LC50/SPECIES/ROUTE	NOT AVAILABLE
HAZARDOUS INGREDIENT	SODIUM NITRATE
APPROX. CONCENTRATION %	5-15
CAS	7631-99-4
EXPOSURE LIMITS	10 MG/M3
LD50/LC50/SPECIES/ROUTE	4300 MG/KG ORAL-RAT

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE	LIQUID
ODOUR AND APPEARANCE	PLEASANT ODOUR, OFF-WHITE LIQUID
ODOUR THRESHOLD (PPM)	NOT AVAILABLE
SPECIFIC GRAVITY	1
VAPOUR PRESSURE (MM)	NOT APPLICABLE
VAPOUR DENSITY (AIR =1)	NOT AVAILABLE
EVAPORATION RATE	1
BOILING POINT (°C)	100°C
FREEZING POINT (°C)	0°C
SOLUBILITY IN WATER (20°C)	SOLUBLE
% VOLATILE (BY VOL.)	>90
PH	6-7
DENSITY (G/ML)	1
COEFFICIENT OF WATER/OIL DISTRIBUTION	NOT APPLICABLE

SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY	NON-FLAMMABLE
MEANS OF EXTINCTION	USE EXTINGUISHING MEDIA FOR SURROUNDING MATERIALS
SPECIAL PROCEDURES	NOT AVAILABLE
FLASHPOINT (°C) AND METHOD	NONE
UPPER EXPLOSION LIMIT (% BY VOL.)	NOT APPLICABLE
LOWER EXPLOSION LIMIT (% BY VOL.)	NOT APPLICABLE
AUTO-IGNITION TEMPERATURE (°C)	NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS	NOT APPLICABLE
EXPLOSION SENSITIVITY TO CHEM. IMPACT	NOT AVAILABLE

SECTION 5 REACTIVITY DATA

CHEMICAL STABILITY	STABLE
INCOMPATIBILITY? TO WHAT?	STRONG ACIDS OR BASES MAY INACTIVATE CULTURES
REACTIVITY	NONE
HAZARDOUS DECOMPOSITION PRODUCTS	OXIDES OF CARBON

SECTION 6 TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT Y/N	Y
ROUTE OF ENTRY EYE CONTACT Y/N	Y
ROUTE OF ENTRY INHALATION Y/N	N
ROUTE OF ENTRY INGESTION Y/N	Y
EFFECTS OF ACUTE EXPOSURE	CONTACT CAN CAUSE MILD IRRITATION AND REDNESS OF EYES. CONTACT WITH ABRADED SKIN MAY RESULT IN INFECTION. BACTERIA CULTURE IS NON-PATHOGENIC. NAUSEA, VOMITING OR DIARRHEA MAY RESULT FROM INGESTION.
EFFECTS OF CHRONIC EXPOSURE	NONE KNOWN
SYNERGISTIC MATERIALS	
CARCINOGENICITY Y/N	N
REPRODUCTIVE EFFECTS Y/N	N
TERATOGENICITY Y/N	N
MUTAGENICITY Y/N	N

SECTION 7 PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT	
GLOVES	RUBBER OR LATEX
EYEWEAR	SAFETY GLASSES
FOOTWEAR	AS REQUIRED BY EMPLOYER CODE
CLOTHING	AS REQUIRED BY EMPLOYER CODE
ENGINEERING CONTROLS	GENERAL VENTILATION IS NORMALLY ADEQUATE.
LEAK AND SPILL PROCEDURE	WASH AREA WITH WATER.
WASTE DISPOSAL	REVIEW FEDERAL, PROVINCIAL AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL.
HANDLING PROCEDURES/EQUIPMENT	STORE IN A CLOSED CONTAINER, AWAY FROM INCOMPATIBLE MATERIALS.
STORAGE REQUIREMENTS	DO NOT FREEZE AND DO NOT STORE ABOVE 40° C

SECTION 8 FIRST AID MEASURES

SKIN	FLUSH WITH WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. AVOID CONTACT WITH OPEN WOUNDS OR BROKEN SKIN. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
EYE	FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
INGESTION	GIVE AFFECTED PERSON SEVERAL GLASSES OF WATER AND INDUCE VOMITING. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

VALIDATED BY BRODI SPECIALTY PRODUCTS LTD. ON 01/01/2009.

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