

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: **GROZYME**

PRODUCT USE: **HORTICULTURAL ENZYME**

MANUFACTURER'S NAME: **Sipco Bioengineering Inc.** SUPPLIER'S NAME: **SAME**

STREET ADDRESS: **7236 Wilson Avenue** STREET ADDRESS:

CITY: **Delta** PROVINCE: **BC** CITY: PROVINCE:

POSTAL CODE: **V4G 1H3** EMERGENCY PHONE: **(613) 996-6666** POSTAL CODE: EMERGENCY PHONE.

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER OR UN NUMBER OR NA NUMBER	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)
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NO HAZARDOUS MATERIAL

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Dark amber liquid	ODOUR THRESHOLD (PPM) N/ap.		
VAPOUR PRESSURE (MM HG) N/av.	VAPOUR DENSITY (AIR-1) N/av.	EVAPORATION RATE N/av.	BOILING POINT 100 d. C.	FREEZING POINT 0 d. C.
PH 3.0	SPECIFIC GRAVITY 1.17	COEFF. WATER/OIL DIST N/av.	DENSITY N/av.	

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMABILITY IF YES, UNDER
YES ___ NO **X** WHICH CONDITIONS?

MEANS OF EXTINCTION N/ap.	SPECIAL PROCEDURES N/ap.	
FLASHPOINT AND METHOD N/ap.	UPPER FLAMABLE LIMIT (% BY VOLUME) N/ap.	LOWER FLAMABLE LIMIT (% BY VOLUME) N/ap.
AUTOIGNITION TEMPERATURE N/ap.	HAZARDOUS COMBUSTION PRODUCTS None	
EXPLOSION DATA N/ap.	SENSITIVITY TO IMPACT N/ap.	SENSITIVITY TO STATIC DISCHARGE N/ap.

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY YES X NO ___ IF NO, WHICH CONDITIONS?	REACTIVITY AND UNDER WHICH CONDITIONS? N/ap.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES ___ NO X IF SO, WHICH ONES?	HAZARDOUS DECOMPOSITION PRODUCTS N/ap.

PRODUCT DESCRIPTION	GROZYME
SECTION 6 – TOXICOLOGICAL PROPERTIES	

ROUTE OF ENTRY

SKIN CONTACT ___ SKIN ABSORPTION ___ EYE CONTACT X INHALATION ___ INGESTION ___

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

If ingested, may cause laxative reaction (diarrhea)

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

For eyes, flush with plenty of water

EXPOSURE LIMITS
N/ap.

IRRITANCY OF PRODUCT
N/ap.

SENSITIZATION TO PRODUCT
N/ap.

CARCINOGENICITY
N/ap.

TERATOGENICITY
N/ap.

REPRODUCTIVE TOXICITY
N/ap.

MUTAGENICITY
N/ap.

SYNERGISTIC PRODUCTS
N/ap.

SECTION 7 – PREVENTIVE MEASURES
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PERSONAL PROTECTIVE EQUIPMENT

GLOVES (SPECIFY)
Not required

RESPIRATOR (SPECIFY)
Not required

EYE (SPECIFY)
Not required but avoid exposure

FOOTWEAR (SPECIFY)
Not required

CLOTHING (SPECIFY)
Not required

OTHER (SPECIFY)
None required

ENGINEERING CONTROLS (SPECIFY E.G. VENTILATION, ENCLOSED PROCESS)
N/ap.

LEAK AND SPILL PROCEDURE

Rinse area with water to avoid slippery surface hazard.

WASTE DISPOSAL

Flush with water. No special action required. Can be discharged down sewer line.

HANDLING PROCEDURE AND EQUIPMENT

None required

STORAGE REQUIREMENTS

Store in cool, dry area and protect from freezing.

SPECIAL SHIPPING INFORMATION
Not Regulated.

TDG UN NUMBER
Not applicable

SECTION 8 – FIRST AID MEASURES

SPECIAL MEASURES

EYE CONTACT: May cause irritation. Rinse with plenty of water.

INGESTION: May cause laxative reaction (diarrhea).

ABBREVIATIONS USED: N/AV=NOT AVAILABLE

N/AP=NOT APPLICABLE

SECTION 9 – PREPARATION OF MSDS
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PREPARED BY (GROUP, DEPARTMENT, ETC)
Sipco Bioengineering Inc.

PHONE NUMBER
(604) 940-9922

DATE
Jan. 2013