

PRODUCT: BIO X LIQUID ENZYMES

CODE: 7563

**SECTION 01: IDENTIFICATION**

Supplier identifier..... Bay City Sanitation Maint Supply  
 189 Brook Street  
 Barrie ON. L4N 2M3  
 Canada  
 705-728-4332

Product identifier..... BIO X LIQUID ENZYMES  
 Product code..... 7563  
 Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).  
 Product use..... Grease trap treatment.

**SECTION 02: HAZARD IDENTIFICATION**

Hazard classification..... Eye Irritation — Category 2A.  
 Signal word..... WARNING.  
 Hazard statement..... H319 Causes serious eye irritation.  
 Precautionary statements..... P264 Wash thoroughly after handling. P280 Wear eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

Other hazards..... Ingestion of this product may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
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Viable bacterial culture	not available	7-13
Alcohols, C12-15, ethoxylated	68131-39-5	0.5-1.5

<The exact concentration of composition has been withheld as a trade secret>

**SECTION 04: FIRST-AID MEASURES**

Routes of exposure

Inhalation..... No Exposure expected under normal use.  
 Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Skin contact..... Remove contaminated clothing. Wash thoroughly with soap and water. If irritation develops, get medical aid.

Eye contact..... Promptly flush with large amounts of cold water for at least 15 minutes. If irritation persists, consult a physician.

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**SECTION 05: FIRE-FIGHTING MEASURES**

Extinguishing media..... Use an extinguishing agent suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.

Hazardous combustion products..... The substances/groups of substances mentioned can be released in case of fire: Carbon oxides. Harmful vapours.

Special protective equipment and precautions Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Sensitivity to static discharge..... Product is not sensitive to static discharge.  
 Sensitivity to mechanical impact..... Product is not sensitive to mechanical impact.  
 Further information..... Not applicable.

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**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Use personal protective clothing.

Environmental precautions..... Do not discharge into drains/surface waters/groundwater.  
 Methods and materials for containment and cleaning up Absorb spill with inert material (e.g. dry sand or earth) and place in a chemical waste container. Recycle, if possible. Clean up affected area with a large amount of water. Contaminated absorbent material may pose the same hazards as the spilled product.

**SECTION 07: HANDLING AND STORAGE**

Handling precautions..... Avoid contact with skin and eyes.  
 Storage needs..... Avoid exposure to excessive heat, light, and air for prolonged periods of time. Keep containers from excessive heat and freezing.  
 Materials to avoid..... Keep away from strong acids. Keep away from strong bases. Keep away from oxidizing agents.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
Viable bacterial culture	no data available	no data available	no data available	no data available	no data available
Alcohols, C12-15, ethoxylated	not available	not available	not available	not available	not available
Engineering controls.....	No special ventilation requirements.				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields.				
Gloves/type.....	None required under normal conditions of use . For prolonged exposure, use butyl rubber gloves.				
Respiratory/type.....	Not required.				
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance..... liquid.  
 Color..... green.  
 Odour..... citrus.  
 Odour threshold..... not available.  
 pH..... 7.5.  
 Melting point (°C)..... not applicable.  
 Freezing point (°C)..... 0.  
 Initial boiling point (°C)..... 100.  
 Flash point (°C), Method..... >100°C, closed cup.  
 Evaporation rate..... not available.  
 Upper flammability limit (% vol)..... not available.  
 Lower flammability limit (% vol)..... not available.  
 Vapour pressure (mm Hg)..... 17.5.  
 Vapour density (air=1)..... not available.  
 Relative density/Specific Gravity..... 1.03.  
 Water solubility..... soluble.  
 Solubility in other solvents..... not available.  
 Partition coefficient — n-octanol/water..... not available.  
 Auto ignition temperature (°C)..... > 200 °C.  
 Thermal decomposition temperature..... not available.  
 Viscosity..... thin liquid.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity..... No hazardous reactions if stored and handled as prescribed/indicated.  
 Chemical stability..... The product is stable if stored and handled as prescribed/indicated.  
 Possibility of hazardous reactions..... No hazardous reactions when stored and handled according to instructions. The product is chemically stable.  
 Conditions to avoid..... Exposure to air or moisture over prolonged periods. Prolonged heat/light/air exposure.  
 Incompatible materials..... Acids and bases. Strong oxidizing agents.  
 Hazardous decomposition products..... No data available.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Viable bacterial culture	no data available	no data available
Alcohols, C12-15, ethoxylated	not available	1,650-2,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	None expected under normal use.	
Ingestion.....	Ingestion of this product may cause nausea, vomiting and diarrhea.	
Skin contact.....	Contact may cause skin irritation.	
Eye contact.....	Contact may cause eyes irritation.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	At room temperature, exposure to vapor is minimal due to low volatility .	
Skin corrosion/irritation.....	Result: slight irritation.	
Serious eye damage/eye irritation.....	Result: Serious eye irritation.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) ..... single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) ..... repeated exposure	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.	
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.	

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity.....	There is a high probability that the product is not acutely harmful to aquatic organisms.
Persistence and degradability.....	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Bioaccumulative potential.....	No data available.
Mobility in soil.....	No data available.
Other adverse effects.....	No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal methods	
Waste disposal of substance.....	Dispose of in accordance with national, state and local regulations.
Container disposal .....	Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**SECTION 14: TRANSPORT INFORMATION**

TDG classification..... Not regulated as a dangerous good.

**SECTION 15: REGULATORY INFORMATION**

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

**SECTION 16: OTHER INFORMATION**

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: ..... CanChem Consultant

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**SECTION 16: OTHER INFORMATION**

Preparation date..... JAN 03/2019