

**PRODUCT: BIOZYME BULK**

CONTRACT PACKAGING DISTRIBUTION INC
155 BETHRIDGE RD
ETOBICOKE, ON M9W 1N4
416-746-4226

CODE: 4023**SECTION 01: IDENTIFICATION**

Supplier identifier..... CONTRACT PACKAGING DISTRIBUTION INC.
155 BETHRIDGE RD
ETOBICOKE ON. M9W 1N4
Canada
(866) 488-2788
Product identifier..... BIOZYME BULK
Product code..... 4023
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).
Product use..... Drain disinfectant, deodorizer, odour suppressant and cleaner. Applications: grease traps, floor drains, garbage compactors, rendering plants, septic tanks, sewage treatment.

SECTION 02: HAZARD IDENTIFICATION

Hazard classification..... Eye Irritation — Category 2A. Skin Sensitizer — Category 1.
Signal word..... WARNING.
Hazard statement..... H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
Precautionary statements..... P264 Wash thoroughly after handling. P261 Avoid breathing fume/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/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. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P501 Dispose of contents/container to an approved waste disposal plant.
Other hazards..... Ingestion of this product may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Viable bacterial culture	not available	5
Branched alcohol ethoxylate	37251-67-5	2.5-3
D-limonene	5989-27-5	0.3-0.5
L-glutamic acid N,N-diacetic acid, tetra sodium salt	51981-21-6	0.1-0.5

SECTION 04: FIRST-AID MEASURES

Routes of exposure
Inhalation..... If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.
Skin contact..... Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and launder before reuse. If irritation develops, get medical aid.
Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
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.
Medical attention and special treatment..... IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Symptoms may be delayed.

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SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media.....	Use an extinguishing agent suitable for the surrounding fire.
Hazardous combustion products.....	Carbon oxides. Harmful vapours. The substances/groups of substances mentioned can be released in case of fire.
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.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective clothing.
Environmental precautions.....	Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
Methods and materials for containment and cleaning up	Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Contaminated absorbent material may pose the same hazards as the spilled product .

SECTION 07: HANDLING AND STORAGE

Handling precautions.....	Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product . Avoid contact with skin and eyes.
Storage needs.....	Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use.
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	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Viable bacterial culture	no data available	no data available	no data available	no data available	no data available
Branched alcohol ethoxylate	not available	not available	not available	not available	not available
D-limonene	not available	not available	not available	not available	not available
L-glutamic acid	not available	not available	not available	not available	not available
N,N-diacetic acid, tetra sodium salt					
Engineering controls.....	No special ventilation requirements.				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields.				
Gloves/ type.....	Wear chemical resistant protective gloves.				
Respiratory/type.....	Generally not required. Wear respiratory protection if ventilation is inadequate.				
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes. Do not eat, drink, smoke or use cosmetics while working with this product. Remove soiled clothing and wash it thoroughly before reuse. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....	liquid.
Color.....	green.
Odour.....	citrus.
Odour threshold.....	no data available.
pH.....	6.5-7.5.
Melting point (°C).....	not applicable.
Freezing point (°C).....	0.
Initial boiling point (°C).....	100.
Flash point (°C), Method.....	>100°C, closed cup.
Evaporation rate.....	no data available.
Upper flammability limit (% vol).....	no data available.
Lower flammability limit (% vol).....	no data available.
Vapour pressure (mm Hg).....	17.5.
Vapour density (air=1).....	> 1.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Relative density/Specific Gravity. 1.0.
 Water solubility..... dispersible.
 Solubility in other solvents..... no data available.
 Partition coefficient — n-octanol/water..... no data available.
 Auto ignition temperature (°C)..... > 200 °C.
 Thermal decomposition temperature..... no data 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..... Contact with incompatible materials.
 Incompatible materials..... Acids and bases. Strong oxidizing agents.
 Hazardous decomposition products..... No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Viable bacterial culture	no data available	no data available
Branched alcohol ethoxylate	>50 mg/l (ihalation-rat, 4h)	2500 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
D-limonene	>20 mg/l (inhlation-rat, 4h)	4,400 mg/kg (oral-rat); >5,000 mg/kg (dermal-rabbit)
L-glutamic acid N,N-diacetic acid, tetra sodium salt	not available	>2,000 mg/kg (oral-rat)
Routes of exposure		
Inhalation.....	None expected under normal use.	
Ingestion.....	Ingestion of this product may cause nausea, vomiting and diarrhea. .	
Skin contact.....	May cause skin sensitization or other allergic responses.	
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.....	Acute toxicity estimate : > 20 mg/l. Method: calculation method. Virtually nontoxic by inhalation.	
Skin corrosion/irritation.....	Result: slight irritation.	
Serious eye damage/eye irritation.....	Result: Serious eye irritation.	
Respiratory or skin sensitisation.....	D-Limonene is known to be a skin sensitizer. Repeated or prolonged contact may cause skin sensitization .	
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..... May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment. .
 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.

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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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