

SAFETY DATA SHEET

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BRODI SPECIALTY PRODUCTS LTD.
3175 14th Avenue, Unit 1
Markham, Ontario, L3R 0H1
Canada
1-877-744-0751

PRODUCT: BLUEZYME**SECTION 01: IDENTIFICATION**

Supplier identifier..... BRODI SPECIALTY PRODUCTS LTD.
3175 14th Avenue, Unit 1
Markham, Ontario
Canada
L3R 0H1
1-877-744-0751

Product identifier..... BLUEZYME

Product code..... BRODI7204

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

HAZARDOUS INGREDIENTS	CAS #	WT. %
Viable bacterial culture	not available	8-8.5
Alcohols, C12-15, ethoxylated	68131-39-5	1.3-1.6

SECTION 04: FIRST-AID MEASURES

Routes of exposure

Inhalation..... Remove to fresh air. If irritation persists, consult a physician. 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.

Medical attention and special treatment..... IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

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.

PRODUCT: BLUEZYME**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures
 Environmental precautions
 Methods and materials for containment and cleaning up

Use personal protective clothing.

Do not discharge into drains/surface waters/groundwater.
 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
 Storage needs
 Materials to avoid

Avoid contact with skin and eyes.

Avoid exposure to excessive heat, light, and air for prolonged periods of time.

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	no data available
Alcohols, C12-15, ethoxylated	not available	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	blue.
Odour	pleasant.
Odour threshold	no data available.
pH	6-7.
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.
Relative density/Specific Gravity	1-1.01.
Water solubility	soluble.
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	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.

PRODUCT: BLUEZYME

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.....	May cause irritation of the stomach.	
Skin contact.....	Contact may cause irritation.	
Eye contact.....	Contact may cause 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.....	Non-irritant.	
Serious eye damage/eye irritation.....	Result: Severe 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.....	May cause long-term adverse effects in the aquatic 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.

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.
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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.
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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..... MAR 14/2017