

PRODUCT: BIOSHINE

CODE: BIOSHI.

SECTION 01: IDENTIFICATION

Supplier identifier..... Chandler Sales
P.O. Box 431, Stn Main
Saint John, NB, E2L 4L9
Canada
(506) 658-8000

Product identifier..... BIOSHINE
Product code..... BIOSHI.
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).

SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Eye Irritation — Category 2A.
Signal word..... WARNING.
Hazard statement..... H319 Causes serious eye irritation.
Precautionary statements
Prevention..... P264 Wash hands thoroughly after handling. P280 Wear eye protection/face protection.
Response..... 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.
Storage..... None.
Disposal..... None.
Other hazards..... None.
Supplemental Information..... < 1% of the mixture consists of an ingredient or ingredients of unknown acute toxicity.
Comments..... This classification is based on additional information or test data from the raw material manufacturer. Stepan: Mammalian Toxicology of Alcohol Ethoxylates.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Alcohols, C9-11, ethoxylated	68439-46-3	3.5-6
Sodium gluconate	527-07-1	2.5-4
Sodium iminodisuccinate	144538-83-0	0.1-1

SECTION 04: FIRST-AID MEASURES

Routes of exposure
Inhalation..... Remove to fresh air. If irritation persists, consult a physician.
Ingestion..... Never give anything by mouth to an unconscious person. Rinse mouth and then drink plenty of water. Do not induce vomiting. . Get medical aid.
Skin contact..... Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and laundry 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.

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.

PRODUCT: BIOSHINE**SECTION 05: FIRE-FIGHTING MEASURES**

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
Alcohols, C9-11, ethoxylated	no data available	no data available	no data available	no data available	no data available
Sodium gluconate	no data available	no data available	no data available	no data available	no data available
Sodium iminodisuccinate	no data available	no data available	no data available	no data available	no data available
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.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.

Color..... light yellow.

Odour..... citrus.

Odour threshold..... no data available.

pH..... 11.2-11.4.

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. 1.0.

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.

PRODUCT: BIOSHINE**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.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Alcohols, C9-11, ethoxylated	no data available	1,378 mg/kg (oral-rat); 5,000 mg/kg (dermal-rabbit)
Sodium gluconate	no data available	>2,000 mg/kg (oral, rat); > 2,000 mg/kg (dermal, rabbit)
Sodium iminodisuccinate	no data available	> 5,000 mg/kg (oral, rat); >5,000 mg/kg (dermal, rabbit)
Routes of exposure		
Inhalation		
Ingestion		
Skin contact		
Eye contact		
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.....	LC50 (4h, Rat) >20 mg/l. Virtually nontoxic by inhalation. Method: calculation method.	
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.....	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.

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.

PRODUCT: BIOSHINE

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. 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

Preparation date..... MAY 07/2016