

BioStreme[®] Foaming Concentrate

Material No.: BioStreme 111F Concentrate

50 – BIO – 1180

Revision Date: October 24, 2013

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identification:

Product Name: **BioStreme[®] 111F Concentrate**

Synonyms: No synonyms

Chemical Family: Mixture

Application / Use: Deodorizer

Distributed By:

Ecolo Odor Control Technologies Inc

59 Penn Drive

Toronto, ON

M9L 2A6

Prepared By:

Technical Services

Telephone number of preparer: (416) 740-3900

24-Hour Emergency Telephone Number : CANUTEC 613-996-6666

Australian Distributor:

EnviroPro Alternatives Pty Ltd

137 Lake Russell Dr,

Emerald Beach

NSW 2456

1800707076

2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments

Information pertaining to special dangers for human and environment:

Adverse physicochemical effects:

Adverse human health effects and symptoms:

Eye Contact: May cause moderate eye irritation

Skin Contact: May cause moderate skin irritation or redness in sensitive individuals

Inhalation: Not applicable

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea

Adverse environmental effects:

There is no known ecological information for this product

Other adverse hazards:

There is no additional information for this product

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredients	EC Name	CAS#	EC #	Percentage (W/W)	Classification (DSD)	LD50s and LC50s Route & Species:
Alpha Olefin Sulfonate	C14-16-Alkene, Sodium Salts	68439-57-6	270-407-8	10 – 30 %	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.	LD50: 2.31 g/kg (oral / rat) LD50: 6.3g /kg (dermal/rabbit)
Proprietary Formulation	N/A	N/A	N/A	30 – 60%	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.	LD50: > 5.0 g/kg (oral / rat) LC50: N/A
Water	Water	7732-18-5	231-791-2	30 – 60%	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.	LD50: > 90 mL/kg (oral /rat) LC50: N/A

Notes: See section 15 for details on R-phrases

4. FIRST AID MEASURES

General Information: Product is acidic, treat symptomatically.

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: Remove contaminated clothing and laundry before reuse. Wash contaminated skin with mild soap and water for 15 minutes. Get medical attention if irritation persists.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

Ingestion: Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Notes to Physician: No specific antidote. Treatment based on sound judgment of physician and individual reactions of patient.

Hazards: Contact with eyes and skin

Treatment: No specific antidote. Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable

Suitable Extinguishing Media: CO₂, Dry Chemical, Universal - Type foam

Unsuitable Extinguishing Media: Not available

Hazardous Decomposition Materials (under fire conditions): Oxides of carbon, oxides of sulfur

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors

Autoignition Temperature: Not applicable

Flammable Limits in Air (%): Not Available

Special Exposure Hazards: Not Available

Special Protective Equipment: In any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA Ratings for This Product Are:

HEALTH 1, FLAMMABILITY 0, INSTABILITY 0, PERSONAL PROTECTION: "B".

HMIS Ratings for This Product Are:

HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0, PERSONAL PROTECTION: Safety Glasses and Gloves

6. ACCIDENTAL RELEASE MEASURES

CAUTION: Acidic.

Personal Precautionary Measures: Wear appropriate protective equipment: Safety glasses and impervious gloves. Avoid contact with spilled or leaked material. Use caution when walking to prevent slips and falls.

Environmental Precautionary Measures (Large Spills): Evacuate hazard area of unprotected personnel. Wear protective clothing. Shut off source of leak if it is safe to do so. Prevent entry into sewers or streams, dike if needed. Neutralize with lime or soda ash. Larger amounts may be collected with a sorbent material and placed in an appropriate waste disposal container. Use caution when walking to prevent slips and falls.

Procedure for Clean Up (Small spills): Neutralize with lime or soda ash. Mop up with plenty of water, dilute with running water. May be treated with a sorbent material and placed in a tightly sealed container for proper disposal. Use caution when walking to prevent slips and falls.

7. HANDLING AND STORAGE

Handling:	Advice on safe handling:	Avoid contact with eyes and skin.
	Technical Measures:	<p>Measures to prevent aerosol and dust generation: not applicable</p> <p>Measures required to protect the environment: Keep containers tightly closed when not in use.</p> <p>Specific requirements or handling rules: Wear safety glasses and gloves while mixing or pouring.</p> <p>Precautions against fire and explosion: Avoid excessive heat, sparks, open flame or smoking near product. Rinse empty containers before disposal.</p> <p>Further information: wash empty containers and skin thoroughly after handling</p>
Storage:	Technical measures and storage conditions:	Store in tightly closed container. Keep away from heat, sparks, open flame, direct sunlight and all incompatibles
	Packaging materials:	Store in original containers
	Requirements for storage rooms and vessels:	Cool, dry area recommended
	Suggestions for storage assembly:	No further recommendations
	Storage class:	Not available
	Further information on storage conditions:	Local ventilation sufficient if well ventilated
	Specific uses (for end products):	Deodorization

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values:	Occupational exposure limits:	
	Biological limit values:	Not available
	DNEL and PNEC-value(s) as applicable:	Not available
Exposure controls:	Occupational exposure controls:	Not available
	Technical measures to prevent exposure:	General ventilation
Personal protection equipment:	Respiratory Protection:	Not available.
	Hand protection:	Impervious gloves
	Eye protection:	Safety glasses
	Skin protection:	Impervious gloves. Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using the toilet.
	Other Personal Protection Data:	Eye wash should be available and safety shower is also recommended.
Environmental exposure controls:	Water (incl. sewage plant):	Not applicable
	Air:	Not applicable
	Soil:	Not applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Dark green-brown
Odor:	Aromatic
pH:	3.4 – 4.5 @ 25°C
Melting point/range (°C):	Not Available.
Boiling point/range (°C):	>100 °C
Flash point (°C):	>93°C
Flammability (solid, gas):	Not Applicable
Explosive properties:	Not Available.
Oxidizing properties:	Not Available.
Auto-Ignition temperature (°C):	Not Available.
Vapor pressure (°C):	Not Available.
Relative density (g/cm3):	Not Applicable
Water solubility (20°C in g/l):	Complete
Partition coefficient n-Octanol/Water (log Po/w):	Not Available.
Viscosity, dynamic (mPa s):	Not Available.
Vapor density:	>1
Evaporation rate:	<1

Dust explosion hazard:	Not Applicable
Explosion limits:	Not Applicable
Substance groups relevant properties:	Not Available
Other information (where applicable like surface tension, miscibility, fat solubility, conductivity, gas group, etc):	Not Available
Specific Gravity:	1.06 – 1.10
% Volatile by Volume:	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: This product presents no significant reactivity hazard. Hazardous polymerization will not occur.

Conditions to Avoid: Not available.

Materials to Avoid: Avoid strong oxidizing agents and alkalis.

Hazardous Decomposition Products: Oxides of carbon. Oxides of sulfur.

Additional Information: No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: May be irritating to the gastrointestinal tract if swallowed.

Skin Contact: Not a dermal irritant.

Inhalation: Not Available

Eye Contact: Contact of liquid will cause irritation.

Sensitisation: Not available

Repeated Dose Toxicity (sub-acute to chronic): Not available

Acute Test of Product:

Acute Oral LD50: >5,000 mg/kg (oral/rat)

Acute Dermal LD50: Not Available. Not a dermal irritant.

Acute Inhalation LC50: Not Available

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/Teratogenicity/Embryotoxicity/Mutagenicity: Not Available.

12. ECOLOGICAL INFORMATION

Aquatic toxicity Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity	Ecotoxicity - Freshwater Algae Data
Alpha Olefin Sulfonate	LC50 (Brachydanio rerio) 1 - 10 mg/L	Not Available	Not Available

Soil toxicity Information:

Not available

Air toxicity Information:

Not available

Mobility

Known or predicted distribution to environmental compartments:

Surface tension: Not available

Adsorption/Desorption

Soil-water: Not Available.

Water-air: Not Available.

Soil-air: Not Available.

Persistence and degradability

Abiotic Degradation (in sea-water, fresh-water, air, soil): Not Available.

Physical and photo-chemical elimination (ozonolysis, oxidation, photo-oxidation, de-chlorination, photo-mineralisation): Not Available.

Biodegradation: Not Available.

Bioaccumulative potential

Partition coefficient n-octanol /water (log K_{OW}): Not Available.

Bioconcentration factor (BCF): Not Available.

Longterm-Ecotoxicity: Not Available.

Results of PBT assessment: Not Available.

Other adverse effects (ozone depletion, photochemical ozone creation, endocrine disruption, global warming, etc): Will not deplete the ozone layer. Other data Not Available.

Further ecological information (as applicable):

No additional remark.

13. DISPOSAL CONSIDERATIONS

Waste management measures (as applicable):

Can be incinerated, when in compliance with local regulations.

Can be landfilled when in compliance with local regulations.

Appropriate disposal of packaging:

Empty containers should be rinsed a minimum of three times and recycled or disposed of through an approved waste management facility.

Additional information (including any national or regional provisions): Not Available.

14. TRANSPORT INFORMATION

TDG (Canada) Proper Shipping Name: Not Regulated

Note: Not regulated under the Transportation of Dangerous Goods Act

Marine Pollutant:

No

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

WHMIS Classification----- not classified

CPR Compliance----- This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

European Union: Hazard symbols and hazard statements for labelling:
No special labelling required

R-Phrases: R36/38: Irritating to eyes and skin.

S-Phrases: S2 : Keep out of the reach of children.
S3/7/9 : Keep container tightly closed in a cool, well-ventilated place.
S24/25 : Avoid contact with skin and eyes.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39: Wear suitable gloves and eye/face protection.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Special provisions concerning the labelling of certain preparations: Not available

Authorisation and/or restrictions on use: Not available

Other EU regulations: Not available

Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline):
Not available

National regulation Information: Not available

16. OTHER INFORMATION

Disclaimer:

NOTICE TO READER:
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Training instructions (as applicable): not available

Recommended restrictions on use (as applicable): Not available

*****END OF SDS*****