

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** BioStream Foamable HE

**CAS #** Mixture

**Product use** Natural Bacterial inoculant and Odor remover

**Manufacturer** NPD Products Ltd.  
PO Box 133  
Midhurst, ON, Canada L0L 1X0

### Australia Contact

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Poisons Information Centre - 13 11 26

## 2. Hazards Identification

### Emergency overview

WARNING EYE AND SKIN IRRITANT.

### Potential short term health effects

#### Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

**Eyes** Causes irritation, redness and tearing.

**Skin** May cause irritation.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** May cause stomach distress, nausea or vomiting.

**Target organs** Blood. Eyes. Liver. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** Components of this product have been identified as having potential environmental concerns.

## 3. Composition / Information on Ingredients

### Ingredient(s)

	<b>CAS #</b>	<b>Percent</b>
Surfactant Blend	mixture	90%
Multi-Bacillus spore blend	mixture	
Sodium lauryl ether sulfate	9004-82-4	0.5 - 1
Alcohols C12-14 ethoxylated	68439-50-9	0.1 - 0.5
Ethanol	64-17-5	0.1 - 0.5
Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	0.1 - 0.5
Sodium citrate	6132-04-3	0.1 - 0.5
Zinc diricinoleate	13040-19-2	0.1 - 0.5
Alcohols, C6-12, ethoxylated	68439-45-2	0.05 - 0.15

## 4. First Aid Measures

### First aid procedures

#### Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**Notes to physician** Symptoms may be delayed.

**General advice** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire Fighting Measures

**Flammable properties** Not flammable by WHMIS/OSHA criteria.

### Extinguishing media

#### Suitable extinguishing media

Dry chemical. Carbon dioxide. Alcohol foam.

**Unsuitable extinguishing media** Not available

### Protection of firefighters

#### Specific hazards arising from the chemical

Not available

### Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products** May include and are not limited to: Oxides of carbon.

### Explosion data

**Sensitivity to mechanical impact** Not available

**Sensitivity to static discharge** Not available

## 6. Accidental Release Measures as a concentrate

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods for containment** Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

## 7. Handling and Storage

**Handling** Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

**Storage** Keep out of reach of children.

Store in a closed container away from incompatible materials.

## 8. Exposure Controls / Personal Protection

**Engineering controls** General ventilation normally adequate.

**Personal protective equipment**

**Eye / face protection**

Wear safety glasses with side shields.

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

**Skin and body protection** As required by employer code.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

**Appearance** aqueous solution

**Color** Opaque Yellow

**Form** Liquid

**Odor** Mild Detergent

**Odor threshold** Not available

**Physical state** Liquid

**pH** 8 - 9

**Melting point** Not available

**Freezing point** 30.20 °F (-1 °C)

**Boiling point** 213.80 °F (101 °C)

**Pour point** Not available

**Evaporation rate** Not available

**Flash point** Not available

**Auto-ignition temperature** Not available

**Flammability limits in air, lower, %  
by volume** Not available

**Flammability limits in air, upper, %  
by volume** Not available

**Vapor density** Not available

**Specific gravity** Not available

**Relative density** 1.01 G/mL

**Octanol/water coefficient** Not available

**Percent volatile** Not available

## 10. Stability and Reactivity

**Reactivity** This product may react with strong oxidizing agents.

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

**Chemical stability** Stable under recommended storage conditions.

**Conditions to avoid** Do not mix with other chemicals.  
Strong acids or bases may inactivate bacterial mixture.

**Incompatible materials** Oxidizers. Acids. Caustics.

**Hazardous decomposition products** May include and are not limited to: Oxides of carbon.

## 11. Toxicological Information

### Component analysis - LC50

#### Ingredient(s)

Alcohols C12-14 ethoxylated

#### LC50

Not available

Alcohols, C6-12, ethoxylated Not available Ethanol 31623 ppm rat Glucopyranose, oligomeric, decyl octyl glycosides Not available Sodium citrate Not available Sodium lauryl ether sulfate Not available Zinc diricinoleate Not available

### Component analysis - Oral LD50

#### Ingredient(s)

Alcohols C12-14 ethoxylated

#### LD50

9800 mg/kg rat

Alcohols, C6-12, ethoxylated 5050 mg/kg rat

Ethanol 3450 mg/kg mouse; 7060 mg/kg rat

Glucopyranose, oligomeric, decyl octyl glycosides 5000 mg/kg rat Sodium citrate Not available Sodium lauryl ether sulfate 1600 mg/kg rat Zinc diricinoleate Not available

#### Effects of acute exposure

**Eye** Causes irritation, redness and tearing.

**Skin** May cause irritation.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** May cause stomach distress, nausea or vomiting.

**Sensitization** The finished product is not expected to have chronic health effects.

**Chronic effects** The finished product is not expected to have chronic health effects.

**Carcinogenicity** The finished product is not expected to have chronic health effects.

#### ACGIH - Threshold Limit Values - Carcinogens

Ethanol 64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

#### IARC - Group 1 (Carcinogenic to Humans)

Ethanol 64-17-5 Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [in preparation] (in alcoholic beverages)

**Mutagenicity** The finished product is not expected to have chronic health effects.

**Reproductive effects** The finished product is not expected to have chronic health effects.

**Teratogenicity** The finished product is not expected to have chronic health effects.

**Name of Toxicologically Synergistic** Not available

#### Products

## 12. Ecological Information

#### Ecotoxicity

No data available.

#### Environmental Fate

As a concentrated surfactant this product will have an adverse effect on aquatic environments at high levels. Under normal conditions it is not expected to have any effect on aquatic or terrestrial environments.

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

#### Waste from residues / unused products

Not available

**Contaminated packaging** Not available

## 14. Transport Information

### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

## 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Canada - WHMIS - Ingredient Disclosure List** Ethanol 64-17-5 0.01 %

**WHMIS status** Controlled

**WHMIS classification** Class D - Division 2B

**WHMIS labeling**

**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous chemical** Yes

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## 16. Other Information

**Disclaimer** Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

use of or reliance on any information contained in this document.

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**Expiry date** 04-Jan-2026

**Prepared by lab**

**Other information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page

of the document.  
LEGEND HMIS/NFPA

Health 1

Flammability 0

Physical Hazard 0

Personal Protection B