

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name: CI BioFresh Enzyme Foam Treatment

Product Code: CI-BF-001

Recommended Use: Enzyme-active stain and odour eliminator for carpet and upholstery

Restrictions on Use: Test for colour fastness before use. Do not use on white or light-coloured carpet. Not warranted for use on upholstery fabric, curtains, or clothing. Not for personal cleansing.

Manufacturer / Distributor: Chem International (a division of Aliysha Enterprises Ltd.)

Address: 10770-180 Street NW, Edmonton, AB T5S 2S4

Phone: 1.800.665.7287

Website: www.chemintonline.com

Emergency Number: CANUTEC: 1.888.226.8832

SECTION 2 — HAZARDS IDENTIFICATION

2.1 GHS / WHMIS 2015 Classification

Hazard Class	Category	Hazard Statement
Gases Under Pressure	Liquefied Gas	H280 — Contains gas under pressure; may explode if heated
Eye Irritation	Category 2A	H319 — Causes serious eye irritation
Skin Irritation	Category 2	H315 — Causes skin irritation
Skin Sensitization	Category 1	H317 — May cause an allergic skin reaction
Respiratory Sensitization	Category 1	H334 — May cause allergy or asthma symptoms or breathing difficulties if inhaled

This product contains 0% chemicals of unknown toxicity.

2.2 Label Elements

Signal Word: WARNING

Hazard Pictograms: Gas Cylinder (GHS04) · Exclamation Mark (GHS07) · Health Hazard (GHS08)

WARNING — PRECAUTIONARY STATEMENTS: Contains gas under pressure; may explode if heated. Causes skin and serious eye irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F. Store in a well-ventilated place. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation, wear respiratory protection. Do not breathe mist, vapours, or spray. Wear protective gloves and eye protection. Wash hands thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: get medical advice or attention.

IF INHALED: Remove person to fresh air. If experiencing respiratory symptoms: get emergency medical help immediately.

Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse. Keep container tightly closed. Dispose of contents and container in accordance with local, provincial, and federal regulations.

2.3 Other Hazards / 2.4 Unknown Acute Toxicity

No hazards not otherwise classified. Unknown acute toxicity: not applicable (0% chemicals of unknown toxicity).

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS No.	Percent (w/w)
2-Butoxyethanol	111-76-2	1–10%
Propane / n-Butane (propellant)	68476-86-8	3–7%
d-Limonene	5989-27-5	1–5%
Ethoxylated nonylphenol, branched	68412-54-4	1–5%
Enzyme preparation	Proprietary	< 1%
Water	7732-18-5	Balance

Trade Secret Note: A specific chemical identity and/or percentage of composition has been withheld as a trade secret. All hazardous chemicals as determined by applicable Canadian OHS regulations have been listed.

SECTION 4 — FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

Skin Contact: Immediately wash with soap and water for 15 minutes. Seek medical attention if irritation develops.

Inhalation: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing, administer artificial respiration. At any sign of loss of consciousness seek immediate medical attention.

Ingestion: Do not induce vomiting. Rinse mouth out with water. Seek medical attention if unwell.

4.2 Most Important Symptoms and Effects — Acute and Delayed

Eyes: Redness, tearing, blurred vision.

Skin: Irritation; possible allergic skin reaction with repeated or prolonged contact.

Inhalation: May cause respiratory tract irritation. Avoid breathing spray mist. Risk of respiratory sensitization with repeated exposure.

Ingestion: May cause gastrointestinal irritation, nausea.

Chronic Health Hazards: Respiratory and/or skin allergic reaction with repeated overexposure.

Note to Physician: No specific treatment regimen. Treatment of overexposure should be directed toward the control of symptoms and the clinical condition of the patient.

SECTION 5 — FIREFIGHTING MEASURES

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, and water spray or fog.

Unsuitable Media: N/A

Special Fire-Fighting Procedures: Wear NIOSH-approved SCBA with full face piece operated in positive pressure/demand mode with full body protective clothing. Use water spray only to cool exposed containers.

Unusual Fire and Explosion Hazards: Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Hazardous Combustion Products: Oxides of carbon, hydrocarbons.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for PPE. Eliminate all ignition sources.

Environmental Precautions: Do not dump in sewers or waterways. 2-Butoxyethanol is toxic to aquatic life at high concentrations.

Spill Cleanup: Use non-combustible material such as vermiculite, sand, or earth to absorb spill and sweep to clean. Small releases may be wiped up with wiping material. Dispose in accordance with local, provincial, and federal regulations.

Container Disposal: Do not puncture, incinerate, or reuse container. Wrap container and place in trash collection.

SECTION 7 — HANDLING AND STORAGE

Handling: Pressurized container: do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F. Use in a well-ventilated area. Wash hands thoroughly after use.

Storage: Store in a well-ventilated area. Protect from sunlight and heat. Keep container tightly closed. Keep out of reach of children.

Incompatibilities: Strong oxidizers, alkalies, and acids.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Limits

Ingredient	OSHA PEL	ACGIH TLV
2-Butoxyethanol (111-76-2)	50 ppm	20 ppm
Propane / n-Butane (68476-86-8)	1,000 ppm	1,000 ppm
d-Limonene (5989-27-5)	Not established	Not established
Ethoxylated nonylphenol (68412-54-4)	Not established	Not established
Enzyme preparation (proprietary)	Not established	0.00006 mg/m³ Ceiling (as crystalline active enzyme, ref. Subtilisins)

8.2 Exposure Controls and PPE

- Engineering Controls:** Ambient ventilation suitable; forced ventilation should not be required under normal use conditions. Ensure adequate air exchange in confined spaces.
- Respiratory Protection:** Not required with normal use. In case of inadequate ventilation or if exposure limits are exceeded, use NIOSH/MSHA-approved respiratory protection.
- Eye / Face Protection:** Safety glasses or chemical splash goggles.
- Skin Protection:** Protective gloves. Wash hands thoroughly with soap and water after use. Contaminated work clothing must not leave the workplace; wash before reuse.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Cloudy, white aerosol foam	Odour	Citrus
pH	11.3–12.3 (highly alkaline)	Flash Point	Not determined
Flammability	Not considered a flammable or extremely flammable aerosol per OSHA 29 CFR 1910.1200	Evaporation Rate	0.1
Relative Density (H ₂ O=1)	0.98–1.00	Solubility in Water	100%
Specific Gravity	0.99	% Volatile by Volume	93%
VOC Content	15%	Propellant	Hydrocarbon
Phosphates	None	Biodegradability	Biodegradable components
Storage Stability	1 year	Cold Stability	32°F (0°C)
Vapour Pressure	Not determined	Viscosity	Not determined
Auto-ignition Temp.	Not determined	Decomposition Temp.	Not determined

SECTION 10 — STABILITY AND REACTIVITY

- Reactivity:** None known under normal conditions.
- Chemical Stability:** Stable under recommended storage and handling conditions.
- Possibility of Hazardous Reactions:** None known.

Conditions to Avoid: Excessive heat, sources of ignition.

Incompatible Materials: Strong oxidizers, alkalies, and acids.

Hazardous Decomposition Products: Oxides of carbon, hydrocarbons.

SECTION 11 — TOXICOLOGICAL INFORMATION

11.1 Toxicological Data — Key Ingredients

Ingredient	Test	Species	Result
2-Butoxyethanol (111-76-2)	LD50 Oral	Rat	320 mg/kg
2-Butoxyethanol (111-76-2)	LD50 Dermal	Rabbit	440 mg/kg
2-Butoxyethanol (111-76-2)	LC50 Inhalation (4h)	Mice	700 ppm
d-Limonene (5989-27-5)	LD50 Oral	Rat	4,400 mg/kg
d-Limonene (5989-27-5)	LD50 Oral	Mouse	5,600 mg/kg
d-Limonene (5989-27-5)	LD50 Dermal	Rabbit	5,000 mg/kg

11.2 Health Effects Summary

Category	Classification / Finding
Routes of Entry	Eyes, ingestion, inhalation, skin
Eyes	Causes irritation; redness, tearing, blurred vision
Skin	May cause mild irritation and dryness with prolonged or repeated contact
Inhalation	May cause respiratory tract irritation; avoid breathing spray mist
Ingestion	May cause gastrointestinal irritation and nausea
Acute Health Hazards	Eye irritation; skin irritation
Chronic Health Hazards	Respiratory and/or skin allergic reaction with repeated overexposure
Carcinogenicity (all bodies)	No (OSHA, ACGIH, NTP, IARC)
Medical Conditions Aggravated	None known

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity: 2-Butoxyethanol (111-76-2): toxic to aquatic life only at high concentrations; lethal concentrations not established. Prevent run-off to sewers and waterways.

Persistence and Degradability: Components of this product are biodegradable.

Bioaccumulative Potential: This product is not expected to bioaccumulate.

Mobility in Soil: This product is mobile in soil.

Other Adverse Effects: None known.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local, provincial, and federal regulations. Do not dump in sewers.

Container Disposal: Do not puncture, incinerate, or reuse pressurized container. Wrap container and place in trash collection or offer for recycling where available.

RCRA Status: Not listed as hazardous waste under RCRA; product should be fully characterized prior to disposal (40 CFR 261).

SECTION 14 — TRANSPORT INFORMATION

Mode	Proper Shipping Name	Hazard Class	UN No.	Packing Group
TDG (Ground)	Aerosols, Ltd. Qty.	2.2	UN 1950	N/A
Air (IATA)	Aerosols, non-flammable	2.2	UN 1950	N/A
Sea (IMDG)	Aerosols	2.2	UN 1950	N/A

Note: This product is classified as a non-flammable aerosol (Class 2.2) for transport purposes per OSHA 29 CFR 1910.1200 flame extension test criteria.

SECTION 15 — REGULATORY INFORMATION

WHMIS 2015 Classification: Gases Under Pressure — Liquefied Gas (H280); Eye Irrit. 2A (H319); Skin Irrit. 2 (H315); Skin Sens. 1 (H317); Resp. Sens. 1 (H334).

TSCA Status: All chemicals are listed or exempt.

SARA 311/312 Hazard Categories: Health Hazard and Physical Hazard.

SARA 313 Reportable Ingredients: 2-Butoxyethanol (CAS 111-76-2) — subject to SARA Title III, Section 313 reporting.

CERCLA: None reportable.

Clean Water Act: None.

California Proposition 65: This product does not contain chemicals regulated by California Proposition 65.

WHMIS / International Regulations: 2-Butoxyethanol (111-76-2) listed on: EINECS (Europe), ENCS (Japan), AICS (Australia), WHMIS (Canada), DSCL (EEC), NDSL, ECL (Korea), PICCS (Philippines), NZIOC (New Zealand), IECS (China).

VOC Content: 15%

SECTION 16 — OTHER INFORMATION

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NFPA Ratings: Health: 2 — Intense or continued exposure could cause temporary incapacitation or residual injury. Fire: 1 — Must be preheated before ignition can occur. Reactivity: 0 — Normally stable, even under fire conditions.

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