



Safety Data Sheet

Bio Plus

SECTION 1. IDENTIFICATION

Product Identifier	Bio Plus
Other Means of Identification	Code No. A21102
Recommended Use	Carpet / Fabric Spot & Stain Remover.
Restrictions on Use	Use only as directed according to label instructions.
Manufacturer/Supplier Identifier	Leysons Products, a division of 1787528 Ontario Inc., 1366 Sandhill Drive, Ancaster, Ontario, L9G 4V5, (905) 648-7832
Emergency Phone No.	Mark Bryans, (905) 648-7832 ext 351, Monday to Friday, 8:00 AM to 3:30 PM CANUTECH, 613-996-6666, 24-hr for Emergencies involving Dangerous Goods
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SECTION 2. HAZARD IDENTIFICATION

Classification

Gas under pressure - Compressed gas; Respiratory sensitization - Category 1; Skin sensitization - Category 1; Reproductive toxicity - Category 1

Label Elements



Danger

Contains gas under pressure; may explode if heated.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May damage fertility or the unborn child.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Propane	74-98-6	1-5		
n-Butane	106-97-8	1-5		
Bacteria/Enzyme Complex	68920-42-3	1-5		
Sodium borate, pentahydrate	12179-04-3	0.3-1		
Fragrance		0.1-1		

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Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

If irritation is experienced, remove person to fresh air.

If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

Skin Contact

IF ON SKIN (or hair), remove all contaminated clothing and launder before reuse.

Rinse skin with plenty of water or shower.

Call a physician if irritation develops or persists.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

Remove contact lenses, if present and easy to do.

If eye irritation persists, get medical advice or attention.

Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again.

Immediately call a Poison Centre or doctor.

Most Important Symptoms and Effects, Acute and Delayed

May irritate the respiratory system.

May cause severe eye irritation or burns.

May cause skin irritation on prolonged contact.

Harmful if swallowed.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin, respiratory system.

Medical Conditions Aggravated by Exposure

Asthma, skin allergies.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Foam, alcohol foam, carbon dioxide, dry chemical and water fog.

Specific Hazards Arising from the Product

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Hazardous decomposition products include carbon dioxide, carbon monoxide and other toxic fumes.

Special Protective Equipment and Precautions for Fire-fighters

Containers may explode if heated.

Wear full fire fighting equipment and self contained breathing apparatus.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Eliminate all ignition sources. Use grounded, explosion-proof equipment. Wear a NIOSH approved air-purifying

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respirator with an organic vapour cartridge. Wear protective gloves and eye protection as a precaution. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Minimize the use of water to prevent environmental contamination.

Methods and Materials for Containment and Cleaning Up

Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing.

Do not spray on an open flame or other ignition source. Do not pierce or burn container, even after use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing in this product.

Wear gloves and eye protection as a precaution. Wear a NIOSH approved air-purifying respirator with an organic vapour / acid cartridge.

Conditions for Safe Storage

Store and use in a cool, dry, well-ventilated area. Do not store above 48 C (120F). Keep out of reach of children in a tightly closed container away from food, drink and animal feed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Propane	Not established					
n-Butane		1000 ppm				
Sodium borate, pentahydrate	10 mg/m ³					
Bacteria/Enzyme Complex	Not established					

Appropriate Engineering Controls

Use ventilation adequate to keep exposures (airborne levels of vapour) below the recommended exposure limits.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Eyewash stations and showers should be available in areas where this material is used and stored.

Skin Protection

Wear protective gloves and clothing to prevent skin contact.

Respiratory Protection

Avoid breathing vapours. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapour. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapour concentrations above PEL/TLV limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Colourless liquid.

Odour Low odour

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Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Boiling point/Initial boiling point	Not available
Boiling Range	Not available
Flash Point	< 23 °C (73 °F)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not applicable in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Other Physical Property 1	Not available
Other Physical Property 2	VOC content by weight 4%

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Conditions to Avoid

High temperatures.

Freezing.

Incompatible materials.

Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong oxidizing agents (e.g. perchloric acid), strong reducing agents (e.g. hydrides).

Hazardous Decomposition Products

May include but are not limited to oxides of carbon, nitrogen and ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation.

Skin contact.

Skin absorption.

Eye contact.

Ingestion.

Acute Toxicity

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Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Propane		Not available	Not available
n-Butane	658,000 mg/L (rat) (4-hour exposure) (vapour)		
Sodium borate, pentahydrate	Not available		
Bacteria/Enzyme Complex		Not available	Not available

Skin Corrosion/Irritation

May cause irritation or symptoms such as redness, edema, drying, defatting or cracking of the skin.

Serious Eye Damage/Irritation

May cause serious eye irritation based on information for closely related materials.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause irritation of the respiratory system.

Skin Absorption

May cause irritation on prolonged contact.

Ingestion

Harmful if swallowed.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure.

Respiratory and/or Skin Sensitization

Not expected to cause respiratory system problems when used in well ventilated areas with adequate respiratory system protection.

Carcinogenicity

Not available.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

May cause long-term adverse effects in the aquatic environment.

Persistence and Degradability

May cause long-term adverse effects in the aquatic environment.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

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Do not cut, pressurize, weld or burn empty containers.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1950	Aerosols	2.2	Not applicable.

Special Precautions Please note: This product meets the exemption requirements and may be shipped as a "Limited Quantity".

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Mark Bryans

Phone No. (905) 648-7832 ext 351

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Disclaimer To the best of our knowledge, the information contained herein is accurate. However, the user of this product assumes all risks and responsibilities relating to the use of this product. No representation of warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or product to which the information refers.

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