



MATERIAL SAFETY DATA SHEET

SECTION 1 - COMPANY INFORMATION

BIO BLAST

Synonyms: bacterial products.

TDG Class: Not Controlled

Supplier name and address:

Corporate Chemicals & Equipment

7 Neilson Street

St. Catharines, ON L2M 5V9

(905) 682-8888

Manufacturer's name and address

Refer to Supplier



Emergency Telephone# CANUTEC (613) 996-6666

SECTION 2 - HAZARDOUS INGREDIENTS

Contains:

Concentrated Bacterial Cultures	8%	CAS	N/A
Water	90%	CAS	7732-18-5
Nonylphenol Polyethylene Glycol Ether	1%	CAS	127087-87-0
Preservative	less than 1%	CAS	52-51-7

Hazardous ingredient / impurity	% Conc.	Classification	Exposure	CAS	EINECS
None					

SECTION 3 - HAZARDS IDENTIFICATION

Classification:

Bacterial culture non pathogenic, surfactant blend non hazardous.

Irritating to skin, risk of serious damage to eyes.

SECTION 4 - FIRST AID MEASURES

Immediate medical attention is required in case of exposure by inhalation, contact with skin or eyes, or if swallowed.

<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
Inhalation	Same as exposure to mist	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
Skin Contact	Redness and irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention.
Eye Contact	Irritation	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention. Do not delay.
Ingestion	Irritation of gastrointestinal tract, nausea, diarrhea	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.

Immediate Treatment / Antidote: symptomatic treatment

Delayed Effects: bacterial infection



SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishers: water

Unsuitable Extinguishers:

Hazardous Combustion Products: none in normal use. Fire creates fumes including carbon dioxide and sulphur dioxide.

Special Equipment for Fire Fighting: self contained breathing apparatus

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate PPE - See section 8

Environmental Precautions: The bacteria and carriers are naturally occurring and should not pose an environmental risk.

Clean up Procedure: Vacuum or sweep up avoiding generation of mist. Place in suitable labelled containers and hold for waste disposal. Wash spill site with water. If bacterial contamination is an issue use chlorine to kill the bacillus spores.

SECTION 7 - HANDLING AND STORAGE

Handling

Ventilation: Good general ventilation.

Recommended procedures & equipment: avoid creating mist

Storage

Temperature range: 0 deg C to 40 deg C for product viability only.

Humidity range: all.

Keep away from: See section 10

Suitable storage Media: original container with closed lid

Precautions against static discharge: recommended.

SECTION 8 - EXPOSURE CONTROLS & PROTECTIVE EQUIPMENT

Exposure standards:

Component LTEL (8h TWA) STEL (15 mins) Type
None

Personal Protective Equipment:

Respiratory: Dust mask

Hand: Wash hands after use. Gloves recommended

Eye: Safety glasses or goggles recommended.

Skin: Wash after exposure. Overalls and boots recommended

Environmental controls: Users should be aware of environmental considerations and their duties under the environmental protection act.

Hygiene Measures: Always wash thoroughly after handling chemicals.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Water like liquid, dyed dark green
Odor	Lemon
pH	Neutral 6.0 to 9.0
Boiling Point/range	Similar to water
Melting Point/range	Similar to water
Flash point	Not Applicable
Flammability	Not flammable under normal conditions of storage and handling.
Autoignition temperature	Not Applicable



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Explosive limits	Not applicable
Oxidizing Properties	None
Vapour Pressure	Similar to water
Relative density	0.6 to 0.8
Solubility in water	Soluble. Disperses in water.
Solubility in solvent	Not soluble
Partition coefficient	Not Applicable
Viscosity	Similar to water
Vapor density	Similar to water
Evaporation rate	Similar to water
Conductivity	Same as water

SECTION 10 - REACTIVITY & STABILITY DATA

Stability: Stable under normal storage and handling conditions.

Conditions to avoid: Accumulations of product in enclosed spaces and generation of mist. Avoid contact with oxidising chemicals.

Materials to avoid: Acids and Alkalies may inactivate the bacterial cultures.

Hazardous decomposition products: oxides of carbon and sulphur

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxological effects: Low Acute oral toxicity although ingestion will cause irritation of the gastrointestinal tract and may result in nausea and diarrhoea. May cause mild mechanical irritation to eyes, skin and mucous membranes. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.

LD_{Lo}

LD₅₀ Greater than 2000 **oral-rat** **skin-rabbit**
mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Effects: Minimal impact under normal conditions of use and storage. The bacterial cultures are naturally occurring soil type organisms. The other components are unlikely to bio accumulate and are biodegradable.

Mobility: disperses in water

Degradability: contents are biodegradable

Bioaccumulative potential: Not Likely

Aquatic Toxicity: Not Known

SECTION 13 - WASTE DISPOSAL

Substance: Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Container: As substance.

SECTION 14 - TRANSPORTATION INFORMATION

UN number	Class
Primary Hazard	Subsidiary Hazard



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Packing Group Emergency Action Code
H.I. Number Marine Pollutant
Proper Shipping name Water treatment compounds, bacterial culture.

SECTION 15 - REGULATORY INFORMATION

Prepared by: Technical Dept.

Telephone: (905) 682-8888

SECTION 16 - OTHER INFORMATION

References: Suppliers Material Safety Data Sheets.

Preparation Date: July 1/2011

NOTICE: The data and information presented herein are based upon tests, research and reports which are considered by us to be reliable and believed to be accurate. The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his own consideration, investigation and verification. If user requires independent information on ingredients in this or any other material, we recommend contact with Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905 572-4400)