

DrainGel™

Bacterial Formulation for Removal Of Organic Material from Drain Lines And Non-Drain Sites

- ◆ *Removes hard to reach organic material from drain lines and non-drain sites*
- ◆ *Designed to cling to the sides of drains and pipes*
- ◆ *Safe for all types of plumbing*
- ◆ *Biodegradable, non-toxic, non-pathogenic, and non-caustic*
- ◆ *Reduces noxious drain odors and improves flow in slow drains*
- ◆ *Can be sprayed onto hard-to-access non-drain sites*
- ◆ *Salmonella-free*
- ◆ *Improved formulation with higher bacteria counts*

Description

Restaurants, hotels, homes and other food preparation facilities often experience sanitation problems associated with the organic material that accumulates in drain lines, cracks and crevices, and other non-drain sites. These problems include drain and filth-breeding fly infestations, noxious odors and slow drains.

The most effective method of correcting these problems is to remove the organic material. Treating these problems with ordinary drain cleaners, hot water, detergents, bleach, or ammonia is ineffective. The most effective solution is the use of a highly concentrated biological product with specially selected bacteria strains.

DrainGel is a highly-concentrated gel which clings to the sides of drains and pipes. DrainGel can also be easily sprayed into cracks and crevices and onto hard-to-access non-drain sites. DrainGel's formulation incorporates specialized microorganisms in combination with biological support ingredients and essential growth factors. This unique formulation promotes improved performance in degradation of organic materials in both aerobic and anaerobic environments.

DrainGel is also specifically designed to block the production of odors frequently occurring in drain lines, sewer lines and grease traps.

Characteristics

Bacteria Count:	>700 Billion/gallon
Bacteria Type:	Blend of 5 Bacillus Spores
Salmonella/	
Shigella:	Negative
Appearance:	Blue
Fragrance:	Herbal
Stability:	2 years+ at 35°F to 95°F

Storage and Handling

Store in cool, dry place. Avoid inhalation, wash hands after contact, and avoid eye contact.

Availability

- ◆ 32 Fl Oz (1 Quart) 946 ML Refillable Dispensing Bottles - 12 Bottles Per Case
- ◆ 128 Fl Oz (1 Gallon) 3.79L Bottles - 4 Bottles Per Case
- ◆ 5 Gallon (18.95L) Pails

Additional Information

Internet: www.bio-systems.com

Contact Your Local DrainGel Distributor

American Bio-Systems

P.O. Box 577, Honolulu, Hawaii 96809-0577
(888) 371-3353 • Fax (888) 708-5353 • Internet: www.bio-systems.com



MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT

Product Name	Manufacturer/Distributor	Emergency Telephone Number
DrainGel	American Bio-Systems, Inc. P.O. Box 577 Honolulu, Hawaii 96809-0577	PHONE: (888) 371-3353 INQUIRY: American Bio-Systems, Inc. EMERGENCY: (888) 371-3353 OUTSIDE USA: (888) 371-3353

SECTION II - HAZARDOUS INGREDIENTS/INFORMATION

HAZARDOUS COMPONENTS

% MAX	CAS NO.	CHEMICAL NAME
100%		Proprietary mixture

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H2O=1)	1.0	Boiling point	>100 Deg. C
Vapor Pressure (mm Hg)	=Water	Melting Point	N/A Deg. C
Vapor Density (Air=1)	=Water	Evaporation Rate	1 (Water=1)
Percent (by volume)	Nil	pH	7.0-7.8
Solubility in Water	99%	Odor	Perfumed
Appearance	Med. Blue Liquid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Deg.C)/Method Used	Not determined
Flammable Limits	NA
Extinguishing Media	Carbon dioxide, dry chemical, water
Special Fire Fighting Procedures	Use self-contained breathing apparatus and protective clothing when fighting fires.
Unusual Fire and Explosion Hazards	None

SECTION V - REACTIVITY DATA

Stability	Stable under normal conditions
Incompatibility (Materials to Avoid)	Oxidizing agents. Strong acids or alkali compounds may inactivate biological cultures.
Decomposition or Byproducts	Oxides of sulfur and nitrogen.
Hazardous Polymerization	Will not occur

SECTION VI - HEALTH HAZARD DATA

Route (s) of Entry:

Inhalation?	Low
Skin?	Low
Ingestion?	Low
Eyes?	Low

Health Hazards (Acute and Chronic): HMIS rating H=1 F=0 R=0

Irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.

Eye contact is painful and irritating and may cause burns.

Skin contact may cause slight redness on hands and forearms of dermal allergic reaction. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact with human skin. Organisms used are non-pathogenic but can cause infection when in contact with open wounds. These organisms are susceptible to many commonly used antibiotics.

Inhalation: Mist caused by manufacturing operation may irritate nasal passages and throat.

Occupational Exposure Limits:

CAS #	OSHA STEL	OSHA PEL	ACGIH TLV	ACHIG CEILING	OTHER SKIN
NONE					

SECTION VI - HEALTH HAZARD DATA (Continued)

Carcinogenicity:

NTP? No
 IARC Monographs? No
 OSHA Regulated? No

Signs and Symptoms of Exposure:

Inhalation Irritation
 Skin Contact Irritation
 Ingestion None in small amounts
 Eye Contact Burning, irritation

Medical Conditions Generally Aggravated by Exposure: Dermatitis.

Emergency and First Aid Procedures:

Inhalation Remove to fresh air.
 Skin Contact Remove contaminated clothing, wash with soap and water.
 Ingestion Induce vomiting only if advised by physician.
 Eye Contact Flush with copious amounts of water for at least 15 minutes and have eyes examined and treated by medical personnel.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken in Case Material is Released or Spilled:

Small Spills: Mop up or absorb on inert material.
 Large Spills: Contain and place in appropriate container for disposal.

Waste Disposal Method: Disposal of this product or its residues must be in accordance with all local, state and Federal requirements.

To maintain shelf life, avoid prolonged exposure to high or low temperatures and humidity. Avoid temperatures above 110° F. and keep from freezing. Keep out of direct sunlight.

Precautions To Be Taken in Handling and Storing: Follow good housekeeping and hygiene practices to help prevent accidental exposure or ingestion.

Other Precautions: Wash affected areas of body after using.

SECTION VIII - CONTROL MEASURES

Respiratory Protection	NIOSH approved respiratory equipment not required under normal conditions.
Ventilation	Yes
Local Exhaust	Yes
Forced Exhaust	No
Protective Gloves	Rubber
Eye Protection	Goggles
Other Protective Clothing or Equipment	None
Work/Hygienic Practices	Wash hands and face before eating, drinking or smoking after handling material.

SECTION IX - REGULATORY INFORMATION & REFERENCES

Not subject to Proposition 65 labeling requirements.

All non-biological ingredients are listed on the TSCA inventory.

SARA TITLE III REPORTING REQUIREMENTS

SECTION 302 Reporting No
 SECTION 304 Reporting No
 SECTION 313 Reporting Required No
 SECTION 312 Reporting Required Yes
 CERCLA Reporting Required No
 RCRA Reporting Required No
 Canadian WHMIS Classification Class D2B
 D.O.T. Proper Shipping Name Not D.O.T. Regulated
 D.O.T. ID Number Not Regulated
 D.O.T. Hazard Class Not D.O.T. Regulated

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INSTRUCTIONS FOR USE

FOR DRAINS

PREPARATION: If drain is not regularly used, moisten drain by pouring 1-2 gallons of warm water into drain. For all applications, apply product at time of lowest drain use, ideally at end of day after the use of all cleaning and sanitation products has been completed.

START UP: Add four ounces per day to each drain in area. Apply around edge of drain, attempting to coat sides of drain. Repeat dosage daily for 5-7 days.

FOR MAINTENANCE: Apply four ounces per drain once or twice per week.

FOR NON-DRAIN AREAS (sinks, drain grates, floors, etc.)

PREPARATION: Remove loose and heavy surface organic matter from site.

START UP: Spray site liberally until wet. DO NOT FOG INTO AIR OR APPLY TO AIR MOVING EQUIPMENT THAT MAY ATOMIZE PRODUCT. Repeat application daily for 5-7 days or until organic material has been removed.

FOR MAINTENANCE: Spray sites once or twice per week, adjusting frequency based on results.

KEEP OUT OF THE REACH OF CHILDREN

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

HARMFUL IF SWALLOWED: Wash thoroughly with soap and water after handling. HARMFUL IF INHALED: Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse. CAUSES MODERATE EYE IRRITATION: Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

IF SWALLOWED: Call a physician or Poison Control Center. IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

American Bio-Systems

Information Call (888) 371-3353

Made in U.S.A.