

**New Formula
With MGD**

DrainGel™

**Bacterial Formulation for Removal
of Organic Material from Drain Lines
and Non-Drain Areas**

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

Description

Restaurants and other food preparation facilities often experience sanitation problems associated with the buildup of organic waste (kitchen grease) in drains, cracks and crevices, and under heavy equipment. These problems include fruit and drain fly infestations, foul odors, and clogged (slow) drains.

New formula **DrainGel™** is a highly concentrated bacterial gel that actually **digests** grease buildup that accumulates over time in commercial accounts. **DrainGel's™** proprietary formula includes **MGD™** (Microbial Grease Degradator), a patent-pending *Bacillus* strain that breaks down long chain fatty acids – the primary component of problem grease deposits. **DrainGel™** application also controls foul odors by inhibiting the normal biological production of odor-causing compounds such as hydrogen sulfide and rancid fatty acids that result from septic or anaerobic environments. **DrainGel's™** biological support ingredients and essential growth factors promote rapid germination and growth of its microbial blend resulting in increased effectiveness.

Hot water, bleach, detergents, and ordinary drain cleaners *do not remove* grease and organic waste. These compounds only break up grease deposits pushing them into drains and under equipment. DrainGel 's powerful formula contains over 550 billion cells per gallon (min. spec.). When introduced, its microbes immediately begin multiplying and digesting organic waste. **DrainGel** application is easy – it clings to the sides of drains and pipes and can also be easily sprayed under equipment and onto other hard-to-access areas.

Product Characteristics

Bacteria Count:	550 Billion/gallon
Bacteria Type:	Blend of Bacillus Spores
Salmonella/Shigella:	Negative
Appearance:	Blue-green
Fragrance:	Herbal
Stability:	2 years+ at 35°F to 95°F
pH Value:	8.1-8.5

Performance Characteristics

Bacterial Pathways:	Aerobic & Anaerobic
pH Range:	4.5-8.5
Temperature Range:	50°F to 145°F

Storage and Handling

Store in cool, dry place. Avoid eye contact. Wash hands thoroughly with warm, soapy water after contact.

Availability

- 32 FL. Oz. (1 Quart) 946 ML Refillable Dispensing Bottles - 12 Per Case
- 128 FL. Oz. (1 Gallon) - 3.79L - 4 Bottles Per Case
- 5 Gallon (18.95L) Pails
- 55 Gallon Drums

Additional Information

www.bio-systems.com

Contact Your Local DrainGel Distributor

American Bio-Systems

(888) 371-3353 • Fax (888) 708-5353

customersupport@bio-systems.com • www.bio-systems.com



Material Safety Data Sheet

Section 1 - Product

Product Name	Manufacturer/Distributor	Emergency Telephone Number
DrainGel	American Bio-Systems, Inc.	Phone: (888) 371-3353 Inquiry: American Bio-Systems, Inc. Emergency: (888) 371-3353 Outside USA: (888) 371-3353

Section 2 - Ingredients

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV/TWA
Proprietary Formulation	NA	NA	NA

ALL COMPONENTS APPEAR ON THE TSCA INVENTORY. COMPONENTS NOT LISTED ARE EITHER NON HAZARDOUS OR IN CONCENTRATIONS OF LESS THAN 1%.

Section 3 - Physical/Chemical Characteristics

Specific Gravity (H2O)	Approx. 1.0	Boiling Point	100 Deg. C
Vapor Pressure (mm Hg at 20C)	=Water	Melting Point	N/A
Vapor Density (Air=1)	=Water	Odor	Herbal
Solubility in Water	Complete	pH	8.1-8.5
Appearance	Blue-green		

Section 4 - Fire and Explosion Hazard Data

Flash Point (Deg C)/Method Used	NA
LEL	NA
UEL	NA
Extinguishing Media	Water spray, carbon dioxide, dry chemical powder.
Special Fire Fighting Procedures	None
Unusual Fire and Explosion Hazards	None known.

Section 5 - Reactivity Data

Stability	Stable under normal conditions
Incompatibility (Materials to Avoid)	Not known
Hazardous Decompositions Products	Not known
Hazardous Polymerization	Will not occur

Section 6 - Health Hazard Assessment

Ingestion	Ingestion may result in abdominal pain, nausea and vomiting.
Eye Contact	This material may cause eye irritation.
Skin Contact	Could cause mild skin irritation after prolonged contact.
Inhalation	Inhaling mist from this product could cause irritation to the lungs and mucus membranes.
Signs and Symptoms of Over Exposure	None known.

Section 6 - Health Hazard Assessment (Continued)

Conditions to Avoid	Strong acids or alkali compounds may inactivate biological cultures.
Aggravated Medical Conditions	None known, however persons with respiratory problems should avoid breathing any mist from this product.
Supplemental Health Information	The microorganisms used in this product are Class 1 microorganisms. Class 1 microorganisms are defined by the Center for Disease Control as not likely to cause illness in healthy humans or animals. However, persons who have a compromised immune system should avoid contact with open wounds and/or breathing dust or mist from manufacturing processes.

Emergency First Aid Procedures

Eye Contact: Rinse eyes with water for fifteen minutes, if irritation persists, see a physician.

Inhalation: Move person to fresh air, avoid breathing dust from product. If breathing problems develop, seek the care of a physician.

Skin Contact: Wash the product off the skin with soap and water, if irritation develops seek the care of a physician.

Ingestion: Watch victim for any signs of illness, induce vomiting only if advised by a physician.

Section 7 - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Waste Disposal Method: Contain and collect material, place in proper container for reuse or disposal. Dispose of materials in accordance with all federal, state and local laws.

Precautions to be Taken in Handling and Storage: Store in a location away from children, food items and potable water. Store in an area out of the direct sunlight, keep container closed when not in use, avoid storing in a damp environment. Always wash hands with soap and water before handling food or smoking. Use good chemical hygiene practices when working with any chemical.

Section 8 - Special Protection Information

Ventilation	Local exhaust should be sufficient. If used in a manner that creates a mist, mechanical ventilation may be necessary.
Respiratory Protection	None required for recommended use.
Protective Gloves	Recommended. Disposable nitrile exam gloves are suitable for preventing prolonged contact with the skin.
Inhalation	None known.
Eye Protection	Safety glasses with side shields or splash goggles are recommended.
Other Protective Clothing	None required, however, avoid prolonged contact with the skin from soiled clothing.

DrainGel™

Bacterial Formulation for Removal of Organic Material from Drain Lines and Non-Drain Sites

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 to each drain in area. Apply around edge of drain, attempting to coat sides of drain. Repeat dosage daily as necessary, usually for 5-7 days.

FOR MAINTENANCE: Apply four ounces per drain every one to two weeks.

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

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

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

FOR MAINTENANCE: Spray area every one to two weeks, adjusting frequency based on results.

DESCRIPTION

New formula **DrainGel™** is a state-of-the-art bacterial formulation for removal of organic material from drain lines and non-drain areas. New formula **DrainGel™** contains **MGD™** (Microbial Grease Degradar), a patent-pending Bacillus strain that breaks down complex grease molecules (kitchen grease).

KEEP OUT OF THE REACH OF CHILDREN

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

HARMFUL IF SWALLOWED: Ingestion may cause abdominal pain, nausea, or vomiting.

HARMFUL IF INHALED: Inhalation may cause irritation to lungs and mucus membranes.

CAUSES MODERATE EYE IRRITATION: Contact with eyes may cause eye irritation.

FIRST AID

IF SWALLOWED: Watch for any signs of illness. Induce vomiting only if advised by physician.

IF INHALED: Remove person to fresh air. If breathing problems develop, see a physician.

IF IN EYES: Rinse eyes with water for 15 minutes. Call a physician if irritation persists.

American Bio-Systems

Information Call (888) 371-3353

Made in U.S.A.