

# 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 plumbing and septic
- ◆ Biodegradable, non-toxic, non-caustic and non-pathogenic
- ◆ NSF Registered for use in food processing facilities
- ◆ Salmonella free

### Description

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

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

**DrainGel™** can also be foamed with excellent results.

### Product Characteristics

Bacteria Count:	550 Billion/gallon
Bacteria Type:	Blend of Bacillus Spores
Salmonella:	Negative
Appearance:	Blue-green
Fragrance:	Herbal
Stability:	2 years+ at 35°F to 95°F
pH Value:	7.0-8.6

### 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](http://www.bio-systems.com)



Nonfood Compounds  
Program Listed - C1  
127371

## American Bio-Systems

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## 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	AGCIH TLV/TWA
Proprietary Formulation	NA	NA	NA

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

## Section 3 - Physical Characteristics

Specific Gravity	Approx. 1.0	Boiling Point	Not known
Vapor Pressure	No data	Melting Point	N/A
Solubility	Complete	pH	7.0-8.6
Appearance and Odor	Blue liquid, perfumed	Vapor Density	No Data

HMIS rating (0-4): Health = 1, Fire = 0, Reactivity = 0

## Section 4 - Fire/Explosion

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

## Section 5 - Reactivity Data

Stability	Stable
Incompatibility	Not known
Hazardous Decomposition or By Products	Not known
Hazardous Polymerization	Will not occur

## Section 6 - Health Hazard Data

### Acute Health Affects

Ingestion	Ingestion may result in abdominal pain, nausea and vomiting.
Eyes	This product may cause eye irritation.
Skin Contact	Could cause mild skin irritation after prolonged contact.

**Section 6 - Health Hazard Data (continued)**

**Acute Health Affects (continued)**

Conditions to Avoid	Strong acids or alkali compounds may inactivate biological cultures.
Inhalation	Inhaling mist from this product could cause irritation to the lungs and mucous membranes.
Signs and Symptoms of Over Exposure	None known.
Aggravated Medical Conditions	None known, however persons with respiratory problems should avoid breathing any mist from this product.

**Emergency First Aid Procedures**

Eye Contact	Rinse eyes with water for fifteen minutes; if irritation persists, see 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.
Inhalation	Move person to fresh air and avoid breathing mist from product. If breathing problems develop, seek the care of a physician.

**Section 7 - Spill or Leak Procedures**

**Steps to be taken in case material is spilled or leaked:**

**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.

**Other Precautions:** None

**Section 8 - Control Measures (PPE)**

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 normal use.
Protective gloves	Recommended. Disposable nitrile gloves are suitable for preventing prolonged contact with the skin.
Other protective clothing	None required, however, avoid contact with the skin from soiled clothing.
Eye protection	Safety glasses with sides shields or splash goggles are recommended.

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal, state and local laws.

# DrainGel™

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

FÓRMULA BACTERIAL PARA REMOVER MATERIAL ORGÁNICO DE LÍNEAS DE DRENAJE Y OTRAS ÁREAS

### Description

**DrainGel™** is a state-of-the-art formulation for removal of organic material from drain lines and non-drain areas. **DrainGel™** contains **MGD™** (Microbial Grease Degradar), a *Bacillus* strain that breaks down complex grease molecules (kitchen grease). Best results are usually obtained by applying **DrainGel™** undiluted per the instructions. **DrainGel™** is also effective when foamed. For applications that require foaming, see the foaming instructions.

### Descripción

**DrainGel™** es un producto con una fórmula bacterial revolucionaria para la remoción de material orgánico de líneas de drenaje y de otro tipo de áreas. **DrainGel™** contiene **MGD™** (degradador de grasa microbiana), una cepa de bacilo con patente en trámite que rompe las moléculas complejas de la grasa (grasa de cocina). Por lo general, se obtienen óptimos resultados aplicando **DrainGel™** sin diluir de acuerdo con las instrucciones que se indican a continuación. **DrainGel™** también es eficaz cuando hace espuma. Para aplicaciones que requieren de espuma, consulte las instrucciones que se indican más abajo.

### Instructions For Use

#### FOR DRAINS

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

**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

**PREPARATION:** Remove loose and heavy surface organic material from area.

**START UP:** Spray **DrainGel™** on area 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.

#### FOR FOAMING APPLICATION

Mix 4 oz. **DrainGel™**, 2 oz. foaming agent, and 26 oz. water in a standard quart foamer. Foam into drains, cracks and crevices and into hard to reach areas.

### Instrucciones De Uso

#### PARA DRENAJES

**PREPARACIÓN:** Si el drenaje no se usa periódicamente, vierta 1 a 2 galones de agua tibia en el drenaje. Para todas las aplicaciones, aplique el producto en el momento de menos uso del drenaje, idealmente, al final del día o después de haber utilizado todos los productos de limpieza e higiene.

**INICIO:** Agregue cuatro onzas a cada drenaje en el área. Aplique alrededor del borde del drenaje, intentando recubrir los costados del mismo. Repita la dosis diariamente, según sea necesario, por lo general, durante 5 a 7 días.

**MANTENIMIENTO:** Aplique cuatro onzas por drenaje cada una a dos semanas.

#### PARA ÁREAS DISTINTAS DE LAS DE DRENAJE

**PREPARACIÓN:** Remueva el material orgánico suelto o pesado de la superficie del área.

**INICIO:** Pulverice **DrainGel™** en el área hasta que esté húmedo. Repita la aplicación diariamente, según sea necesario, hasta remover el material orgánico; por lo general, durante 5 a 7 días. **NO APLIQUE PULVERIZANDO O A UN EQUIPO DE MOVILIZACIÓN DE AIRE QUE PUEDA ATOMIZAR EL PRODUCTO.**

**MANTENIMIENTO:** Pulverice el área cada una a dos semanas; ajuste la frecuencia sobre la base de los resultados obtenidos.

#### PARA APLICACIONES QUE REQUIERAN DE ESPUMA

Mezcle 4 oz. de **DrainGel™**, 2 oz de agente espumógeno y 26 oz de agua en un espumador estándar de un cuarto. Introduzca la espuma en los drenajes, grietas y hendiduras y en áreas de difícil acceso.

### 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 mucous 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.

### Declaraciones Precautorias Riesgos Para Seres Humanos y Animales Domésticos

#### PRECAUCIÓN

**PERJUDICIAL EN CASO DE INGESTA:** La ingesta puede causar dolor abdominal, náuseas o vómitos.

**PERJUDICIAL EN CASO DE INHALACIÓN:** La inhalación puede causar irritación de pulmones y membranas mucosas.

**CAUSA IRRITACIÓN MODERADA DE LOS OJOS:** El contacto con los ojos puede causar irritación.

#### PRIMEROS AUXILIOS

**EN CASO DE INGESTA:** Observe signos de enfermedad. Introduzca el vómito sólo si así lo indica el médico.

**EN CASO DE INHALACIÓN:** Saque a la persona al aire fresco. Si tiene problemas para respirar, llame a un médico.

**EN CASO DE CONTACTO CON LOS OJOS:** Enjuague los ojos con agua durante 15 minutos. Si la irritación persiste, llave a un médico.

## American Bio-Systems

Information Call (888) 371-3353

Made in U.S.A.