

bio-gel[®] MICROBLEND G

15 LB. BULK PACK

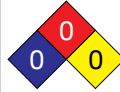

Biologically engineered to reduce organic waste in retention ponds or waste lagoons, barns, coops, stalls, houses, kennels, cages, litter, bedding and many more!

- Highly concentrated bacterial count
- Not sensitive to wide temperature variations
- Wide range of degradation capabilities
- Fresh citrus scent
- Aids in organic debris composting
- Easy application
- Microbially based
- Optimally degrades organic masses

1. IDENTIFICATION

Product Name:	Bio-Gel MicroBlend G
Product Description:	Water soluble Bulk Pack or Bac-Paks
Applications:	Industry specific applications.
Supplier:	PestWest LLC 4363 Independence Court Sarasota, FL 34243
Telephone No:	941-358-1983
Emergency Tel No:	800 424 9300 (U.S.) +1 (703) 527 3887 (outside the U.S.)

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:	The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.	
GHS label elements:	Non-Regulated Material	
Hazard Pictograms:	Non-Regulated Material	
Signal Word:	Non-Regulated Material	
Hazard statements:	Non-Regulated Material	
Unknown acute toxicity:	75 % of the mixture consists of component(s) of unknown toxicity.	
Classification system: NFPA ratings (scale 0 - 4)		HEALTH = 0 FIRE = 0 REACTIVITY = 0
Classification system: HMIS ratings (scale 0 - 4)		HEALTH = 0 FIRE = 0 REACTIVITY = 0
Hazard(s) not otherwise classified (HNOC)	None	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Mixtures	
Description:	Mixture of substances listed below with non-hazardous additions.	
Dangerous components:	144-55-8 Sodium Hydrogencarbonate	15-35%

4. FIRST-AID MEASURES

General information:	No special measures required.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Generally the product does not irritate the skin.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing:	If swallowed and symptoms occur, consult a doctor.
Information for doctor:	
Most important symptoms and effects, both acute and delayed:	No further relevant information available.
Indication of any immediate medical attention and special treatment needed:	No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	
Suitable extinguishing agents:	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture:	No further relevant information available.
Advice for firefighters:	
Protective equipment:	Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Not required.
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Environmental precautions:	Do not allow to enter sewers/surface or ground water.
Methods and material for containment and cleaning up:	Dispose of the collected material according to regulations.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

Handling:	
Precautions for safe handling:	No special measures required.
Information about protection against explosions and fires:	No special measures required.
Conditions for safe storage, including any incompatibilities:	None
Storage:	
Requirements to be met by storerooms and receptacles:	Store in the original container.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	None
Specific end use(s):	No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:	No further data; see section 7.
Control parameters:	Not applicable.
Components with occupational exposure limits:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:	The lists that were valid during the creation of this SDS were used as basis.
Exposure controls:	
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be followed. Wash hands before breaks and at the end of work. <ul style="list-style-type: none"> • Breathing equipment: Not required. • Protection of hands: Not required. • Material of gloves: Not required. • Penetration time of glove material: Not applicable. • Eye protection: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties: General Information	
FORM:	Powder
COLOR:	White
ODOR:	Odoless
Odor threshold:	Not determined.
pH-value @ 20 °C (68 °F)	Not applicable.
Change in condition:	• Melting Point/Melting Range: Not determined. • Boiling Point/Boiling Range: Not determined.
Flash point:	None
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	• Lower - Not determined. • Upper - Not determined.
Vapor pressure:	
Density @ 20°C (68°F):	1.694 g/cm ³ (14.136 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not applicable.
Evaporation rate:	Not applicable.

Solubility in / Miscibility with:	Water: Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	Dynamic: Not applicable. Kinematic: Not applicable.
Solvent content:	• Organic Solvents: 0.0% • Solids content: 25.0%
Other information:	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity:	No further relevant information available.
Chemical stability:	Stable under normal conditions.
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:	
Acute toxicity:	LD/LC50 values that are relevant for classification: (144-55-8 Sodium Hydrogencarbonate) Oral LD50 4220 mg/kg (Rat)
Primary irritant effect:	<ul style="list-style-type: none"> • On the skin: No irritating effect. • In the eyes: No irritating effect. <p>• Additional toxicological information: The product is not subject to classification according to internally approved calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.</p>
Carcinogenic categories:	<ul style="list-style-type: none"> • IARC (International Agency for Research on Cancer): None of the ingredients are listed. • NTP (National Toxicology Program): None of the ingredients are listed. • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12. ECOLOGICAL INFORMATION

Toxicity:	
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems:	
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Results of PBT and vPvB assessment:	
PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects:	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Recommendation:	Smaller quantities can be disposed of with household waste.
Uncleaned packagings:	
Recommendations:	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number:	DOT, ADR, ADN, IMDG, IATA - Non-Regulated Material
UN proper shipping name:	DOT, ADR, ADN, IMDG, IATA - Non-Regulated Material
Transport hazard class(es):	DOT, ADR/ADN, ADN, IMDG, IATA - Non-Regulated Material
Class:	Non-Regulated Material
Packing group:	DOT, ADR, IMDG, IATA - Non-Regulated Material
Environmental hazards:	Not applicable.

Special precautions for user:	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
UN "Model Regulation"	Non-Regulated Material

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients are listed.
TSCA (Toxic Substances Control Act):	All ingredients are listed.

California Proposition 65:

Chemicals known to cause cancer:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency):	None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH):	None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health):	None of the ingredients are listed.
GHS label elements:	Non-Regulated Material
Hazard pictograms:	Non-Regulated Material
Signal word:	Non-Regulated Material
Hazard statements:	Non-Regulated Material
National regulations:	None of the ingredients are listed.
Chemical safety assessment	A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision:	7/13/2017
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Abbreviations and acronyms:

No decomposition if used according to specifications.

ADR:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN:	The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
VOC:	Volatile Organic Compounds (USA, EU)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	Very Persistent and very Bioaccumulative
NIOSH:	National Institute for Occupational Safety and Health
OSHA:	Occupational Safety & Health Administration

TLV:	Threshold Limit Value
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit

***Data compared to the previous version altered**

SDS created by MSDS Authoring Services
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DIRECTIONS FOR USE:

For use UNDER fresh litter, straw, shavings, sawdust and bedding. Using spreader equipment, apply at a rate of 1 US pound (16 oz) per 1000 square ft of area (length x width = area).

For deep drain applications (sewer drain, septic, waste water treatment, RV, etc) mix 4 lbs of MB-G per 4 1/2 gal of warm water. Stir and let set for 20 minutes. Stir before each pour and apply all contents into the drain system. Use within 24 hours of mixing.

Refer to full label for complete application instructions. www.pestwest.com

PRECAUTIONARY STATEMENTS:

Contains bacterial cultures. Before use, be sure there is adequate ventilation. Use a standard dust mask to avoid inhalation. Avoid breathing dust or mist. Mild eye and respiratory irritant. Avoid contact on skin and clothing. After handling, wash thoroughly with a mild soap or detergent. Refer to the SDS for treatment recommendations.

STORAGE AND HANDLING:

Dry product. Store in a cool, dry place. Store to avoid direct sunlight.