

JET BUGS©

Microbial Degreaser - Biodegradable

Helix Microbial Degreaser is a high-potency microbial & biodegradable chemical blend, engineered specifically for wastewater applications where animal and vegetable fat, oil, & grease (FOG) is a problem. These natural isolate strains of bacteria are combined with a 100% Biodegradable, Environmentally-Friendly chemical grease emulsifying system that contains NO CITRUS OIL, ALIPHATIC HYDROCARBONS, or any petroleum by-products that cause waste water systems difficulties. As the accumulated FOG is degraded and liquefied, the facultative bacteria begin to digest the grease completely.

The microorganisms include both aerobic and facultative anaerobic strains, which are especially desirable in collection systems where FOG tends to pool and mat. Their inclusion assures that performance is good in low oxygen (very common in collection systems), or anoxic environments.

Many of the common headaches associated with collection systems such as grease buildup, malodors, production of hydrogen sulfide, and corrosion of equipment disappear with a consistent regimen of cleaning with Microbial Degrease/Deodorizer. Can be pressure sprayed, sprayed with a coarse sprayer, or manually dosed (poured). Use on life stations, wet wells, manholes, low flow lines, sewer lines, bar screens, or other areas where FOG buildup can be problematic. Great for pressure cleaning in sewer applications with Jet Truck and Jet Rod equipment! This formula contains odor counteractants for immediate foul odor elimination. Microbial Degreaser/Deodorizer can be the answer to some of your toughest grease and odor problems! MADE FOR JETTING SEWERS!

FEATURES AND ADVANTAGES

- ☑ Made for use in Jetting Sewers & Equipment
- ☑ Concentrated – 1 to 100 gallons of water
- ☑ Reduces Time to Clean
- ☑ Enhanced FOG Elimination in lines & truck tanks with Chemical AND Biological Action
- ☑ Liquefies Grease on Contact via Pressure Cleaner
- ☑ Significant and Immediate Bad Odor Reduction in Lift Stations & Sewer Lines
- ☑ Use to Clean Floats for Smoother Operation
- ☑ Reduced Corrosion of Pumps and Equipment
- ☑ Reduced Hydrogen Sulfide generation-Enhances Personnel Safety
- ☑ Improved Plant's Stability by Eliminating Toxic Chemical & Orange Oil Degreasers
- ☑ Safe for Waste Treatment Systems – will NOT affect WWTP Biomass
- ☑ Bacteria stays in System – Cleans Downstream
- ☑ Grease will NOT Re-coagulate Downstream
- ☑ Reduces Frequency of Cleaning
- ☑ 100% BIODEGRADABLE
- ☑ HMIS of 1-0-0 – Safe for Personnel to Use

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Microbial Degreaser - Biodegradable **Technical Information**

Microbiological Information

Multiple strains of selected Facultative anaerobes (growth with or without oxygen). All microorganisms are Class 1 ATCC organisms, Non-pathogenic & Non-Mutating, Spore Forming & Vegetative cells. Certified Salmonella Free.

Preferred Performance Parameters

Effective pH Range - 6.0 - 9.0; Effective Temp. Range - 50-110 deg. F.;
Dissolved Oxygen - Greater than or equal to 0.5 preferred

Product Safety

Health	1	0=Least
Flammability	0	1=Slight
Reactivity	0	2=Moderate
		3=High
		4=Extreme

Storage & Handling

Store in a cool place; Protect from freezing; Do not open until needed; Replace lid tightly after each use; Avoid inhalation of mist; Wash hands with warm, soapy water after use.

Packaging

Helix HL-5000 is packaged in 6 and 55 gallon drums.

Directions for Use

1. Dispense via Venturi tube to mix in hose or Add to solution tank.
2. Fill Jet truck, tank, or trailer with water. Add 1 gallon of **JET BUGS®** Microbial Degreaser for each 100 gallons of water. Apply solution as you jetspray upstream. Wait 10 – 15 minutes. Jet spray again as line is retrieved. Best results should be obtained at maximum working pressure via rotating nozzle and half speed on the reel. **Use all solution made within 24 hours.**

Dilute at 1:50 to 1:100 for various degreasing applications, depending on severity of conditions of application.

Made in USA.



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SECTION II - HAZAROUS INGREDIENTS/INFORMATION

NON-HAZARDOUS COMPONENTS	CAS#	OSHA/PEL	ACGIH/TLV	OTHER/STEL	SK
Secondary Alcohol Ethoxylate	60828-78-6	ND	ND	ND	ND
Phenoxyethanol	122-99-6	ND	ND	ND	25 PPM
Ethylene Diamine Tetraacetate	150-43-6	ND	ND	ND	

HAZARDOUS COMPONENTS
none

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >212 deg. F	Appearance and odor: clear pink solution with surfactant odor
Vapor Pressure (mm Hg): ND	Specific Gravity (H2O=1):>1
Vapor Density (Air=1): ND	Melting Point: ND
Solubility in Water: Miscible in water	Evaporation Rate@Butyl Acetate=1) =>>>1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point(Method Used): >250 deg. F (PMCC)	Flammable Limits: LEL: ND UEL: ND
Extinguishing Media: water mist, chemical foam, dry chemical	
Special Fire Fighting Procedures: As in all fires where chemicals are involved firefighters should use self-contained breathing apparatus	
Explosion Hazards: NONE	

SECTION V - REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Oxidizers or strong acids may inactivate cultures.
Hazardous Decomposition or Byproducts: Heat, carbon dioxide, and carbon monoxide.
Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): NONE KNOWN
Routes of Entry, Signs of Exposure, and Symptoms of Exposure:
SKIN and EYES: May irritate skin on prolonged exposure. Eye irritant.
INHALATION: Do not mist.
INGESTION: Gastric pain and vomiting if large quantities are ingested.
Medical Conditions Generally aggravated by Exposure: Unknown
Carcinogenic: NONE
Emergency and First Aid Procedures:
SKIN & EYE CONTACT: Rinse skin with clear water. For eye contact immediately flush with clear running water for 15 minutes. Get medical attention.
INHALATION: Not applicable.
INGESTION: Immediately drink large quantities of water. Get medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS: Dilute with water and flush to sanitary sewer.
Handling and Storing: Keep container closed when not in use. Do not freeze. Follow label instructions.
Other Precautions: Keep this and all chemicals out of the reach of children.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): Not required.
Ventilation: Not required.
Protective Gloves: Rubber gloves recommended
Eye Protection: Splash goggles or protective eyeglasses
Other Protective Clothing or Equipment: Not required.

SECTION IX - ADDITIONAL INFORMATION

ENVIRONMENTAL
BIODEGRADABILITY: Biodegradable

SARA TITLE III REPORTING REQUIREMENTS

SECTION 302, 304	Reporting not required
311, 312	Reporting not required for inventory above TPQ.
313	Reporting may be required for users in manufacturing sector.
CERCLA	Same as section 304

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