



Bio-Regen Hydrocarbon

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.0 Format: GHS Language: English (US)

SECTION 1: Identification

Product Identifier

Product Name Bio-Regen Hydrocarbon

Product Name Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Details of the Supplier of the Safety Data Sheet

Manufacturer 3 Tier Technologies, LLC
413 W. 13th St
Sanford, Florida 32771

Telephone (General) 877-226-7498

Emergency Telephone Number

Manufacturer 407-808-4653

SECTION 2: Hazard Identification

Classification of the Substance or Mixture

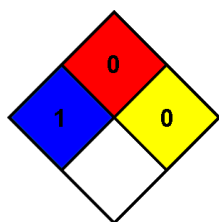
Classification (GHS-US) Not classified

Label elements No labeling applicable

Hazard Statements None

Precautionary Statements None

Other Information



NFPA Health Hazard

1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Fire Hazard

0 - Materials that will not burn.

NFPA Reactivity

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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SECTION 3: Composition/Information on Ingredients

Substances Material does not meet the criteria of a substance.

Mixtures

Bio-Regen Hydrocarbon is a blended composition "not considered hazardous" under the OSHA Hazard Communication Standard CFR Title 29 1910.1200. All ingredients appear on the EPA TSCA Inventory. All Bacillus Bacteria contained in this product are DSL Listed and Compliant.

Components	CAS Number	%	Hazardous
Organic Biopolymer	1415-93-6	50	No
Bacillus Bacteria	ATCC 18250-7	30	No
RO Water	7732-18-5	10	No
Amino Acids	Various	10	No

Ingredients of <1% have been added to a non-hazardous liquid organic substrate. Active components >5% are identified above.

See Section 11 for Toxicology Information

SECTION 4: First aid measures

Description of First Aid Measures

Inhalation	Remove to fresh air and keep at rest in a comfortable position for breathing.
Skin (or clothing)	Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
Eye	Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Refer to Section 11: Toxicological Information.

Indication of Any Medical Attention and Special Treatment Needed

Notes to Physician

All treatments should be based on observed signs and symptoms of distress in patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: Fire-Fighting Measures

Extinguishing Media

Suitable Extinguishing Media Carbon dioxide. Dry powder. Foam

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Unsuitable Extinguishing Media Not applicable.

Special Hazards Arising From the Substance or Mixture

Unusual Fire and Explosion Hazards Not applicable.

Hazardous Combustion Products Not applicable.

Advice for Firefighters No special firefighting equipment is needed; however, self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Store in a safe place. Wear approved goggles when handling this product. Wash material off skin with plenty of soap and water. Wash clothing and footwear before reuse. Always wash hands thoroughly after use.

Emergency Procedures Not applicable.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

Containment/Clean-Up Measures Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in a safe manner in accordance with local/national regulations.

SECTION 7: Handling and Storage

Precautions for Safe Handling

Handling Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Keep out of reach of children. Store in a dry, well-ventilated area. Keep container closed when not in use.

Incompatible Materials or Ignition Sources Caustics, oxidizers, reducers.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Exposure Controls

Engineering Measures/Controls None specified.

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Personal Protective Equipment



Pictograms

Respiratory

MSHA-NIOSH approved. No special precautions required.

Eye/Face

Protective eye goggles are recommended.

Hands

Wear rubber gloves for prolonged exposure; rinse completely from skin after contact.

Skin/Body

No special precautions required; rinse completely from skin after contact.

General Industrial Hygiene Considerations None specified.

Environmental Exposure Controls None specified.

SECTION 9: Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance - Description	Brown / Black Liquid
Color	Brown / Black	Odor	Mild Citrus Odor
Taste	Data Lacking	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Data Lacking	Physical and Chemical Properties	Data Lacking
General Properties			
Boiling Point	>212°F (100°C)	Melting Point	Data Lacking
Decomposition Temperature	Data Lacking	Heat of Decomposition	Data Lacking
pH	6.9 – 9.5	Specific Gravity/Relative Density	1.01 – 1.05
Density	Data Lacking	Bulk Density	Data Lacking
Water Solubility	99%	Solvent Solubility	Not relevant
Viscosity	Equivalent to Water	Explosive Properties	Classification criteria not met.
Oxidizing Properties	Classification criteria not met.		
Volatility			
Vapor Pressure	Equivalent to Water	Vapor Density	Equivalent to Water
Evaporation Rate	Not Determined	VOC (Wt.)	Negligible
VOC (Vol.)	Data Lacking	Volatiles (Wt.)	Data Lacking
Volatiles (Vol.)	Data Lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	Heat of Combustion	Not relevant
Burning Time	Not relevant	Flame Duration	Not relevant
Flame Height	Not relevant	Flame Extension	Not relevant
Ignition Distance	Not relevant	Flammability (solid, gas)	Non-flammable

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Environmental			
Half-Life	Data Lacking	Octanol/Water Partition Coefficient	Data Lacking
Coefficient of Water/Oil Distribution	Data Lacking	Bioaccumulation Factor	Data Lacking
Bioconcentration Factor	Data Lacking	Biochemical Oxygen Demand BOD/BOD5	Data Lacking
Chemical Oxygen Demand	Data Lacking	Persistence	Data Lacking
Degradation	Data Lacking		

SECTION 10: Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	Strong oxidizing agents, alkalis.
Hazardous Decomposition Products	Carbon oxides (CO, CO ₂). Sulfur oxides.

SECTION 11: Toxicological Information

Information of Toxicological Effects

GHS Properties	Classification
Acute Toxicity	OSHA HCS 2012 Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 Classification criteria not met
Carcinogenicity	OSHA HCS 2012 Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 Classification criteria not met
Respiratory Sensitization	OSHA HCS 2012 Mild Irritant
Serious Eye Damage/Irritation	OSHA HCS 2012 Mild Irritant
Skin Corrosion/Irritation	OSHA HCS 2012 Classification criteria not met
Skin Sensitization	OSHA HCS 2012 Mild Irritant
STOT-RE	OSHA HCS 2012 Classification criteria not met
STOT-SE	OSHA HCS 2012 Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 Classification criteria not met

Target Organs None.

Route(s) of Entry/Exposure

Potential Health Effects

Inhalation

Acute (Immediate)	May cause respiratory irritation.
Chronic (Delayed)	No data available.

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Skin

Acute (Immediate) May cause skin irritation.
Chronic (Delayed) No data available.

Eye

Acute (Immediate) Direct contact with the eyes is likely to be irritating.
Chronic (Delayed) No data available.

Ingestion

Acute (Immediate) May cause gastrointestinal irritation.
Chronic (Delayed) No data available.

SECTION 12: Ecological information

Toxicity Material data lacking.

Persistence and Degradability Material data lacking.

Bioaccumulative Potential Material data lacking.

Mobility in Soil Material data lacking.

Other Adverse Effects No studies have been found.

Other Information No data is available on the adverse effects of this material on the environment.

SECTION 13: Disposal Considerations

Waste Treatment Methods

Product Waste Dispose of content in accordance with local, regional, national, and/or international regulations.

Packaging Waste Dispose of container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
DOT	Not applicable	(N.O.I.) Non Hazardous	Not applicable	Not applicable	Not applicable
TDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
IMO/IMDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
IATA/ICAO	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Special Precautions for User None specified.

Transport in Bulk According to

Annex II of MARPOL 73/78

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The IBC Code

None specified.

SECTION 15: Regulatory information

US Federal Regulations

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory.

International Regulations

No additional information available.

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

SECTION 16: Other Information

Disclaimer/Statement of Liability

The information for this safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual products use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of Federal, State, Provincial, or local laws. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries, or consequential damages which may result from the use of or reliance on any information contained in this form.