

SAFETY DATA SHEET

GroPak CTX

SECTION 1: IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING

Product Name: GroPak CTX
Product Use: Microbial Inoculant
Manufacturer Address: NewLeaf Symbiotics
1005 North Warson Road
Saint Louis, Missouri, 63132 USA
Telephone: +1-314-993-4411
Emergency Numbers: +1-314-993-4411

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification: Not Classified as hazardous
GHS Label Elements: Not applicable
Hazards Not Otherwise Classified: Direct contact with skin or eyes may cause slight irritation in some individuals. Inhalation of dust may cause respiratory tract irritation in some individuals.
Percentage of Ingredients with Unknown Toxicity: None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent
<i>Methylobacterium extorquens</i> Strain NLS0042	Not applicable	1-15%
Mixture of inert ingredients	Not applicable	85-99%

SECTION 4: FIRST AID MEASURES

General:	Remove from source of exposure. If irritation or other signs of toxicity occur, seek medical attention.
Eyes:	Hold eye open and rinse slowly and gently with plenty of water for at least 15 minutes. If present, remove contact lenses and continue rinsing eye.
Skin:	Remove contaminated clothing. Thoroughly wash skin with plenty of soap and water
Inhalation:	Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration.
Ingestion:	Call a doctor immediately if a large amount is swallowed. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.
Most Important Symptoms, Acute and Delayed: None known	

Note to physicians and First Aid Providers: This product has low oral and dermal toxicity and is expected to have low inhalation toxicity. Direct contact with eyes may cause temporary irritation. Provide symptomatic and supportive care as necessary.

SECTION 5: FIRE FIGHTING MEASURES

General:	Use methods and protective gear that are appropriate for the conditions and size of the fire.
Extinguishing Media:	Use appropriate media for underlying cause and combustibles involved in the fire.
Special Equipment:	Self-contained breathing apparatus and full protective gear according to the conditions and size of the fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective clothing such as long-sleeved shirt, pants, waterproof gloves, and shoes with socks.
Methods for Clean up:	Avoid generating dust during clean up. Carefully mop or sweep up spill and place in a closed container for disposal. Rinse area with water.
Environmental Precautions:	Prevent entry to sewers and public waters.

Section 6 Notes: Refer to section 8 for personal protection and section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Use handling procedures that minimize the formation of dust.

Storage Conditions: Store in a cool, dry, well-ventilated place in original container. Keep container closed when not in use. Do not contaminate other pesticides, fertilizers, water, or feed by storage or disposal.

Section 7 Notes: avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking or using the toilet.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

General: Protective clothing should be selected according to the conditions likely to be encountered in the workplace. Applicators should follow label instructions. No exposure limits have been established.

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to reduce airborne exposure at locations/operations where dust may be generated.

Personal Protective Equipment (PPE):

Respiratory: Not normally required. However, if dusty conditions exist, use a dust-filtering face mask or a NIOSH approved respirator with any N, R, P or HE filter for biological products

Eyes and Face: Safety glasses or goggles with side shields are recommended when using product.

Hands / Skin: Gloves made from chemically resistant material such as neoprene, vinyl, rubber, or nitrile.

Other clothing: Wear suitable protective clothing such as long-sleeved shirt, pants, and shoes with socks.

Hygienic Practices: Wash hands and exposed skin before eating, drinking, smoking, or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Powder
Color	Off-white to slightly pink
Odor	Slightly earthy, sweet
pH	6.3-7.5 (at 1.00g/L)
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Flammability	No data available
Evaporation rate	No data available
Density	56.2 lb/ft ³ or 0.961 gram/cc
Solubility	Dispersible in water
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No dangerous reactions known under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reaction:	No dangerous reactions known under normal conditions of use.
Conditions to avoid:	None that are known.
Hazardous decomposition products:	None that are known.
Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Symptoms after inhalation	May cause irritation to the respiratory tract.
Symptoms after skin contact	May cause skin irritation.
Symptoms after eye contact	May cause eye irritation.
Symptoms after ingestion	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	Likely routes of exposure: ingestion, inhalation, skin, and eye.

SECTION 12: ECOLOGICAL INFORMATION

Persistence and degradability:	Not established.
Bioaccumulative potential:	Bioaccumulation unlikely
Mobility in soil:	No additional information available
Other adverse effects:	No other effects known.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method:	Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, <u>one</u> acceptable method of disposal is to incinerate in accordance with local, regional, and national environmental regulations.
Empty container:	Completely empty package into application equipment, rinse with water and add rinsate to application equipment. Dispose of empty package in accordance with applicable environmental regulations.

Section 13 Notes: Regulatory requirements are subject to change and acceptable methods of disposal can vary by location. The appropriate agencies should be contacted for advisement prior to disposal.

SECTION 14: TRANSPORT INFORMATION

Land:	ADR/RID Class	Not controlled under ADR (Europe)
Water:	IMDG Class	Not controlled under IMDG
Air:	IATA-DGR Class:	Not controlled under IATA
Other:	US DOT Freight Classification	Not regulated Not regulated

SECTION 15: REGULATORY INFORMATION

Federal Regulations:	All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.
International Regulations:	No additional information available.
US State Regulations:	California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: OTHER INFORMATION

Revision Date:	30-January-2024
Other Information:	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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