

SAFETY DATA SHEET (SDS)

NT-MAX Industrial Biological Lake & Pond Clarifier Sludge & Muck Remover

Prepared in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200) and SDS content requirements (Appendix D).

1. IDENTIFICATION

Product identifier:	NT-MAX Industrial Biological Lake & Pond Clarifier Sludge & Muck Remover
Recommended use:	Biological treatment for sludge, muck, and organic load reduction in lakes and ponds (aquatic environments).
Restrictions on use:	Not for human or animal consumption. Not for use as an antimicrobial pesticide. Use only as directed.
Manufacturer/Supplier:	Newtechbio, Inc. 4301 US 9 Howell, NJ 07731 USA
Telephone (product information; not an emergency number):	800-509-0927
Emergency telephone number (US):	911 (emergency services) or 1-800-222-1222 (Poison Control for medical advice).
Emergency overview:	For life-threatening emergencies call 911. For non-emergency exposure guidance, call Poison Control (US) 1-800-222-1222. For product information, contact Newtechbio, Inc.
SDS revision date:	2026-02-26

2. HAZARD(S) IDENTIFICATION

Classification (OSHA HazCom 2012 / GHS):	Not classified as hazardous.
OSHA defined hazards (HNOC):	Combustible dust (may form combustible dust concentrations in air if dust clouds are created).
Label elements:	
Signal word:	Warning (combustible dust).
Hazard statement:	May form combustible dust concentrations in air if dust clouds are created during handling or processing.
Pictograms:	None.
Precautionary statements (general):	Avoid breathing dust. Avoid generating dust clouds. Keep away from heat, sparks, open flames, and other ignition sources. Wash hands after handling.
Other hazards:	Dust may cause mechanical irritation to eyes, skin, and respiratory tract. Product contains non-pathogenic, naturally occurring microorganisms; no known pathogens or opportunistic pathogens are intentionally added.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Proprietary microbial blend on an agricultural carrier.

Component	CAS No.	Concentration (% w/w)
Naturally occurring, non-pathogenic facultative microorganisms (trade secret grouping)	Not applicable	1 - 5%
Wheat bran (carrier)	Not assigned (natural agricultural product)	95 - 99%

Trade secret statement: Specific microorganism identities and/or exact percentages are withheld as trade secrets as permitted under 29 CFR 1910.1200(i). Information necessary to evaluate and control exposure is provided in this SDS. Specific identities will be disclosed to medical personnel and other authorized parties in accordance with the regulation.

4. FIRST-AID MEASURES

Inhalation:	Move person to fresh air. If symptoms (coughing, irritation) persist, seek medical attention.
Skin contact:	Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical advice if irritation develops or persists.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Ingestion:	Rinse mouth. Do not induce vomiting. Drink water to dilute. If large amounts are ingested or symptoms occur (nausea, vomiting, diarrhea), seek medical attention.
Most important symptoms/effects, acute and delayed:	No data available. Expected effects are limited to mechanical irritation from dust and possible gastrointestinal upset if large quantities are ingested.
Indication of immediate medical attention and special treatment:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water fog, foam, dry chemical, or carbon dioxide (CO ₂).
Specific hazards arising from the chemical:	Product is not a flammable solid, but fine organic dust dispersed in air in sufficient concentration and in the presence of an ignition source may present a flash fire or dust explosion hazard. Combustion may produce carbon oxides.
Special protective equipment and precautions for firefighters:	Wear self-contained breathing apparatus (SCBA) and full protective gear as appropriate for the surrounding fire. Avoid generating and dispersing dust during firefighting operations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Avoid breathing dust. Use appropriate PPE as described in Section 8. Keep away from ignition sources. Provide adequate ventilation.
Environmental precautions:	Avoid uncontrolled release of large quantities. Prevent entry of packaging and large amounts of product into storm drains or waterways except as part of intended use.
Methods and materials for containment and cleaning up:	For intact pouches: collect and place in a suitable container. For spilled powder: avoid dry sweeping that creates dust. Use HEPA-filter vacuum or dampen and collect. Place in labeled container for disposal. Wash spill area with water.

7. HANDLING AND STORAGE

Precautions for safe handling:

Handle sealed pouches to minimize dust exposure. Do not open pouches unless instructed by product directions. If product is opened or transferred, avoid generating dust and avoid contact with eyes and skin. Do not eat, drink, or smoke while handling. Wash hands after use.

Conditions for safe storage, including any incompatibilities:

Store in original, tightly closed packaging in a cool, dry, well-ventilated area. Protect from moisture and direct sunlight. Recommended storage temperature: 50 to 80°F (10 to 27°C); keep above freezing. Do not allow product to freeze or become wet. Avoid prolonged exposure above 120°F (49°C). Estimated shelf life (unopened, stored as recommended): approximately 5 years. Keep away from strong oxidizers, strong acids, and strong bases which may inactivate microorganisms.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

OSHA PEL (Particulates Not Otherwise Regulated, PNOR):

15 mg/m³ (total dust), 5 mg/m³ (respirable fraction) as an 8-hour TWA (where applicable).

ACGIH TLV:

Where applicable, consult the current ACGIH TLVs for airborne particulates (PNOS/PNOS-equivalent guidance).

Engineering controls:

Normal handling of sealed pouches: no special ventilation typically required. If pouches are opened or dust is generated (bulk handling), use local exhaust ventilation or general dilution ventilation to control airborne dust.

Personal protective equipment (PPE):

Eye/face protection:

Not typically required for sealed pouch handling. If powder contact is possible, wear safety glasses with side shields; use chemical goggles if heavy dust is generated.

Skin protection:

Not typically required for sealed pouch handling. If powder contact is possible, wear disposable gloves (nitrile, neoprene, or similar) and work clothing.

Respiratory protection:

Not typically required for sealed pouch handling. If dust is generated, wear a NIOSH-approved particulate respirator (e.g., N95) in accordance with a respiratory protection program as required.

Hygiene measures:

Wash hands after handling. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties (typical values; not specifications):

Appearance	Sealed pre-measured pouch containing tan to light-brown powder.
Odor	Mild earthy.
Odor threshold	No data available.
pH	Not applicable as supplied (solid). Estimated pH of 1% aqueous slurry: approximately 5 to 8.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable (solid).
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not flammable as a solid product; dust may be combustible.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	Not applicable.

Vapor density	Not applicable.
Relative density	No data available.
Bulk density	Estimated 0.2 to 0.6 g/cm ³ (loose).
Solubility(ies)	Dispersible in water; not fully soluble.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	Not applicable (solid).
Explosive properties	May form combustible dust concentrations in air if dust clouds are created.
Oxidizing properties	Not expected to be oxidizing.

10. STABILITY AND REACTIVITY

Reactivity:	No hazardous reactivity known under normal conditions of use and storage.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Avoid generating airborne dust and dust accumulation. Avoid contact with moisture in storage. Avoid excessive heat (above 120°F / 49°C) and direct sunlight. Avoid freezing or repeated freeze-thaw after opening to maintain viability (best practice).
Incompatible materials:	Strong oxidizing agents, strong acids, and strong bases (may inactivate microorganisms).
Hazardous decomposition products:	Under fire conditions, may produce carbon oxides (CO, CO ₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:	Inhalation (dust), skin contact, eye contact, ingestion.
Symptoms related to physical, chemical, and toxicological characteristics:	No data available. Dust may cause mechanical irritation to eyes, skin, nose, and throat. Ingestion of large amounts may cause gastrointestinal upset (e.g., nausea, vomiting, diarrhea).
Acute toxicity:	No data available for the mixture.
Skin corrosion/irritation:	No data available; mechanical irritation possible with prolonged contact.
Serious eye damage/irritation:	No data available; dust may cause irritation.
Respiratory or skin sensitization:	No data available. Product contains no added enzymes or surfactants. Sensitization is not expected, but individuals may vary in sensitivity to dust.
Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity:	No data available. Components are not expected to be carcinogenic at levels present. This product is not listed by IARC, NTP, or OSHA as a carcinogen.
Specific target organ toxicity (single and repeated exposure):	No data available. Repeated inhalation of dust may aggravate pre-existing respiratory conditions.
Aspiration hazard:	Not applicable (solid).

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available for the mixture.
Persistence and degradability:	No data available. Wheat bran is biodegradable. Microorganisms are naturally occurring and expected to degrade over time under environmental conditions.
Bioaccumulative potential / Mobility in soil:	No data available.
Other adverse effects:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	Dispose of unused product and contaminated absorbents in accordance with applicable federal, state, and local regulations. This product is not expected to be a hazardous waste under RCRA when disposed of as supplied. Do not reuse empty packaging for other purposes.
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14. TRANSPORT INFORMATION

DOT (US):	Not regulated as a hazardous material.
IMDG:	Not regulated.
IATA:	Not regulated.
UN number / Proper shipping name / Hazard class / Packing group:	Not applicable.
Environmental hazards (marine pollutant):	Not applicable / not determined.
Special precautions:	Protect packages from damage and moisture. Prevent dust release during transport handling.

15. REGULATORY INFORMATION

US Federal Regulations:	
OSHA Hazard Communication Standard (29 CFR 1910.1200):	This product is not classified as hazardous; combustible dust is an OSHA-defined hazard that may apply if dust clouds are created.
SARA Title III Sections 302/304:	Not expected to contain substances subject to these reporting requirements at reportable levels.
SARA Title III Sections 311/312:	Not classified as a hazardous chemical for these purposes; combustible dust may be applicable depending on form/handling.
SARA Title III Section 313:	Not expected to contain listed toxic chemicals at reportable levels.
TSCA Inventory:	Not determined for this mixture. Verify TSCA applicability for microbial products and carriers as part of regulatory compliance review.
California Proposition 65:	To the best of our knowledge, this product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity at levels requiring a warning.

16. OTHER INFORMATION

HMIS Rating (typical):

Hazardous Material Information System (HMIS)	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	B

NFPA Rating (typical): Health 1 | Flammability 0 | Instability 0

Revision information: Revision 1.0 (Final) - Initial issue.

Disclaimer: The information in this SDS is believed to be accurate as of the revision date and is provided for guidance in safe handling, use, processing, storage, transportation, disposal, and release. It relates only to the specific product identified and may not be valid when used with other materials or in any process not described. Newtechbio, Inc. makes no warranties, expressed or implied, regarding this information.