

BiotaMax Tabs

Safety Data Sheet

Revision: June 19, 2015



Section 1 - Identification

Product Identifier (Trade Name): **BiotaMax Tabs**

Recommended Use: **Soil Amendment**

Manufactured by: Custom Biologicals, Inc.
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Section 2 - Hazards Identification

Classification:



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Label Elements:

Hazard Pictograms



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Additional information:

Hazard description:

WHMIS-symbols:

D2B - Toxic material causing other toxic effects



NFPA Ratings



Health = 1
Fire = 0
Reactivity = 0

HMIS Ratings

HEALTH	1
FIRE	0
REACTIVITY	0

Section 3 - Composition/Information on Ingredients

Chemical characterization: Mixture

Description: Mixture of the substances listed below with non hazardous additions.

Dangerous components:

77-92-9	Citric Acid	Eye Irrit. 2A, H319	20-40%
110-17-8	Fumaric Acid	Eye Irrit. 2A, H319	10-20%

Additional information: For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

Section 4 - First-Aid Measures

General information: Take affected persons out into the fresh air.

Inhalation: Supply fresh air; consult doctor in case of complaints.

Skin contact: Brush off loose particles from skin. Immediately rinse with water. If skin irritation continues, consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water. Remove contact lenses if worn.

Ingestion: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
Information for doctor: Most important symptoms and effects, both acute and delayed
Breathing difficulty. Irritant to eyes. Gastric or intestinal disorders
Danger: No further relevant information available.
Indication of any immediate medical attention and special treatment needed: If necessary oxygen respiration treatment.

Section 5 - Fire-Fighting Measures

Extinguishing media:

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: No further relevant information available.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

Isolate area and prevent access.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Pick up mechanically. Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

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.

Section 7 - Handling and Storage

Handling:

Precautions for safe handling:

Use only in well ventilated areas.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Avoid breathing dust.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles.

Information about storage in one common storage facility:

Store away from foodstuffs. Store away from water.

Do not store together with alkalis (caustic solutions). Do not store together with acids.

Further information about storage conditions:

Keep receptacle tightly sealed. Protect from humidity and water. This product is hygroscopic.

Specific end use(s): No further relevant information available.

Section 8 - Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

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 were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Engineering controls: No further relevant information available.

Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present.

For spills, respiratory protection may be advisable.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Contact lenses should not be worn.



Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment: No further relevant information available.

Risk management measures: See Section 7 for additional information. No further relevant information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Form: Solid Tablet Color: Green **Odor:** Odorless **Odor threshold:** Not Determined **pH-value:** 7-8m Dissolved

Change in condition

Melting point/Melting range: Undetermined **Boiling point/Boiling range:** Undetermined **Flash point:** Not Applicable

Flammability (solid, gaseous): Not determined **Auto-ignition temperature:** Not determined

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: Not applicable

Density: Not determined **Relative density:** Not determined **Vapour density:** Not applicable

Evaporation rate: Not applicable

Solubility in / Miscibility with Water: Soluble

Partition coefficient (n-octanol/water): Not determined

Viscosity: **Dynamic:** Not applicable **Kinematic:** Not applicable

Other information: No further relevant information available.

Section 10 - Stability and Reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. ·

Possibility of hazardous reactions: Heating occurs when water is added. Reacts with strong acids. Reacts with oxidizing agents.

Conditions to avoid: Avoid acids. Moisture.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: None.

Primary irritant effect: **Skin:** No irritant effect. **Eye:** Irritating effect. **Sensitization:** Not determined.

Subacute to chronic toxicity: No further relevant information available. ·

Additional toxicological information: Irritant

Carcinogenic categories:

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

Probable Routes of Exposure: Inhalation. Eye contact. Skin contact. Ingestion.

Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes.

Repeated Dose Toxicity: No further relevant information available.

Section 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.

Additional ecological information:

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects: No further relevant information available.

Section 13 - Disposal Considerations

Waste treatment methods ·

Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

Section 14 - Transport Information

UN-Number

DOT, ADR, ADN, IMDG, IATA Not Regulated

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Not Regulated

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Class Not Regulated

Packing group

DOT, ADR, IMDG, IATA Not Regulated

Environmental hazards:

Marine pollutant: No

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": -

Section 15 - Regulatory Information

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

United States (USA)

SARA

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California)

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 is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency): None of the ingredients is listed.

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH): None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.

State Right to Know Listings: None of the ingredients is listed.

Canadian substance listings:

Canadian Domestic Substances List (DSL): All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%): 77-92-9 citric acid
110-17-8 fumaric acid

Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16 - Other Information

All statements, information, and data provided in this SDS are believed to be accurate and reliable based on current information, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied, on our part, and shall not establish a legally valid contractual relationship.. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. Nothing contained herein is intended as permission, inducement or recommendation to violate any laws or to practice any invention covered by existing patents.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A