



Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: COMBO® Enzyme Blend 10X

Other Identifier: Enzyme Blend

Recommended Use: Animal Feed Additive

Form: Powder

Supplier Identification: American Biosystems, Inc.

345 Luck Avenue

Roanoke, VA 24016

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Website: www.americanbiosystems.com

Emergency Number: 888-344-6469, 9 am to 5 pm EST

Section 2 – Hazards Identification

Hazard Class:

Category 1: Respiratory Sensitizer

Hazard Symbol:



Signal Word:

Danger

Hazard Statement: H334 May cause allergy or asthma or breathing difficulties if inhaled

Precautionary Statement: Prevention

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P284- in case of inadequate ventilation, wear respiratory protection.

Precautionary Statement: Response

P304 + P340- IF INHALED: If inhaled, Remove person to fresh air and keep comfortable for breathing.

P342+ P311- If experiencing respiratory symptoms, call a Poison Control Center or physician.

P402 + P404- Store in a dry place. Store in a closed container.

P501-Dispose of contents/containers in accordance with local regulations.

Human Health Effects: Repeated inhalation of enzyme dust or aerosols resulting in improper handling may induce sensitization and may cause allergic type 1 reactions in sensitized individuals; mild skin irritation and mild eye irritation.

Physical and Chemical Hazards: none known.

Section 3 - Composition/Information on Ingredients

CAS#	Chemical Name	EINECS/ELINCS	IUB	% by weight
9000-90-2	Alpha amylase	232-565-6	3.2.1.1	< 0.2%
9012-54-8	Cellulase	232-734-4	3.2.1.4	< 0.5%
9025-57-4	Xylanase	232-800-2	3.2.1.8	< 0.1%
62213-14-3	Beta glucanase	263-462-2	3.2.1.6	< 0.1%
37288-54-3	Beta Mannanase	253-44-65	3.2.1.78	< 0.1%
9014-01-1	Protease (subtilisin)	232-752-2	3.4.21.62	< 1.0%
9001-62-1	Lipase	232.619.9	3.1.1.3	< 0.5%



Other components: remaining components of this product are proprietary, nonhazardous and/or are present at concentrations below reportable limits.

Section 4 – First Aid Measures

- Eyes:** May cause slight irritation; hold eye open and rinse slowly and gently with water for 15-20 min; Remove contact lenses if present and after the five minutes, then continue rinsing the eye. If symptoms persist, contact a doctor for medical attention.
- Skin:** May cause slight irritation Flush skin with plenty of water for at least 15 minutes after removing contaminated clothing and shoes. Wash clothing before reuse. If symptoms persist, seek medical attention.
- Ingestion:** May cause gastrointestinal irritation; rinse mouth with water and drink plenty of water; if symptoms occur, seek medical attention.
- Inhalation:** May cause allergic respiratory reaction; shortness of breath, wheezing or coughing -this effect may be delayed; remove person to fresh air and if symptoms persist, see medical attention.

Section 5 – Fire Fighting Measures

Fire Fighting Extinguishing media: Water, alcohol resistant foam, dry chemical and carbon dioxide

Fire Fighting Chemical Hazards: May cause allergic respiratory reactions.

Fire Fighting Protective Actions: Self-contained breathing apparatus

Section 6 - Accidental Release Measures

Avoid formation of dusts or aerosols; spilled material should be removed immediately; Clean up with a vacuum with a high efficiency filter; flush area with water ; avoid splashing and high pressure washing to avoid creation of aerosols. Ensure adequate ventilation and wash contaminated clothing and shoes.

Personal precautions, protective equipment and emergency procedures: Provide sufficient ventilation and remove contaminated clothing. Do not walk through spilled material. Avoid breathing dust.

Environmental precautions: Removal by mechanical means (ie vacuuming with HEPA filters) is preferred. Solid can be placed in sealed containers for disposal. Dilute remainder with plenty of water avoiding the formation of aerosols and flush to an approved drain according to local guidelines.

Methods and material for containment and cleaning up: Remove spilled material immediately to reduce the formation of dust using mechanical means (ie vacuuming with HEPA filters) is preferred. Solid can be placed in sealed containers for disposal. Dilute remainder with plenty of water avoiding the formation of aerosols and flush to an approved drain according to local guidelines.

Section 7 - Handling and Storage

Precautions for safe handling: Avoid formation of dust and aerosols; ensure adequate ventilation.

Conditions for safe storage including any incompatibilities: Store in a cool dry area in closed original containers kept tightly closed; protect from freezing.



Section 8 - Exposure Controls/Personal Protection

Occupational exposure limits: None established.

Biological limit values: None established.

Appropriate engineering controls: Dust control and adequate ventilation.

Eye/face protective equipment: Protective glasses with side shields

Skin protection: Protective gloves and long-sleeved clothing; skin should be washed after contact.

Respiratory protection: If inadequate ventilation, wear an approved mask with a particle filter P3 used in accordance with manufacture's recommendations

Section 9 - Physical and Chemical Properties

Physical State:	Solid powder
Appearance:	White free flowing powder
Odor:	Fermentation odor
Odor threshold:	Not established
pH:	Not established.
Freezing/Melting Point:	Not established.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	Not available
Upper/lower flammability or exposure limits:	Not available
Vapor Pressure:	Not available.
Vapor Density:	Not available
Relative Density:	Not established
Solubility:	Dispersible in water
Partial coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available

Other Information: No additional information.

Section 10 - Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions
Hazardous Reactions:	None identified
Conditions to Avoid:	None known
Incompatible materials:	None known
Hazardous decomposition products:	None

Section 11 - Toxicological Information

Acute toxicity: Ingestion of this material is not known to result in adverse effects. No specific data available

Skin Corrosion/irritation: this material may be a mild skin irritant.

Serious eye damage/irritation: overexposure to the eye is characterized by irritation

Respiratory or skin sensitization: overexposure by inhalation may cause sensitization and allergic response in hypersensitive individuals.



Mutagenicity: No data available.

Carcinogenicity: Not listed by IARC, OSHA, or NTP

Reproductive toxicity: No data available

Aspiration hazard: see respiratory sensitization

Section 12 - Ecological Information

Ecotoxicity: No specific data available for blend

Persistence and degradability: No specific data; components are biodegradable.

Bioaccumulation potential: No specific data available.

Mobility in soil: Not relevant.

Results of PBT and vPvB assessment: No specific data available; the substance does not meet the criteria for characterization as either PBT or vPvB

Other adverse effects: None known.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

This product is not classified as dangerous goods according to UN GHS criteria.

IATA: not regulated.

IMDG/IMO: not regulated.

UN Number: Not applicable

UN Proper Shipping Name: Not applicable.

Transport Hazard classes: Not applicable.

Packing Group: Not applicable.

Transport Environmental Hazards: Not applicable

Transport Special Precautions for User: Not applicable

Transport in Bulk (MARPOL): Not applicable.

Section 15 - Regulatory Information

Please refer to local regulations for this product according to your company guidelines.

Section 16 - Additional Information

SDS Creation Date: 01/23/2022

SDS Review Date: 07/22/2025

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. Accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of the company, it is the responsibility of the user to determine the conditions of safe use of this product. This information does not represent analytical specifications.