


SAFETY DATA SHEET
(Globally Harmonized System)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 **Product Identifier**
ALLZYME[®] VEGPRO

- 1.2 **Other means of identification** **Not applicable**

- 1.3 **Recommended use of the chemical and restrictions on use**
ALLZYME[®] VEGPRO contains an enzyme supplement to aid pigs and poultry of all classes in digestion of vegetable protein feed ingredients such as soybean meal and other legume protein feeds.

- 1.4 **Details of the supplier of the safety data sheet**
Alltech, Inc.
3031 Catnip Hill Pike
Nicholasville, KY 40356
Phone: 859-885-9613
Fax: 859-887-6736

- 1.5 **Emergency telephone number**
Chem Trec: 1-800-424-9300 24 hours

SECTION 2: Hazards Identification

- 2.1 **Classification of the substance or mixture**
Protease causes irritation to skin, eyes and respiratory system **H315;H319;H334;H335**

- 2.2 **GHS Label elements** **Not applicable**

- 2.3 **Other hazards**

Inhalation:	Exposure may cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Use appropriate approved respiratory protection. Persons with allergies should avoid exposure.
Skin Contact:	Skin contact causes irritation. Symptoms may include redness, itching and pain. Persons with allergies should avoid exposure.
Eye Contact:	Product causes irritation. Symptoms include redness, itching and pain.
Ingestion:	Not found to be toxic by oral exposure. Ingestion of this product may cause slight irritation.
Chronic Health Effects:	Not identified.

SECTION 3: Composition/Information of ingredients

- 3.1 Substances Not applicable
- 3.2 Mixtures

CAS#:	Component	Weight %
471-34-1	Calcium carbonate	Not disclosed
NA	Dried <i>Aspergillus oryzae</i> fermentation extract	Not disclosed
NA	Dried <i>Trichoderma longibrachiatum</i> fermentation extract	Not disclosed
NA	Dried <i>Bacillus subtilis</i> fermentation extract	Not disclosed

NA: Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eyes:** Flush eyes immediately with copious amounts of clean water for 15 minutes. If irritation or redness persists, seek medical attention if allergic response exhibited.
- Skin:** Remove affected clothing immediately. Flush affected area(s) with copious amounts of soap and water. If skin surface is damaged, apply a clean dressing. Wash contaminated clothing before reuse. If irritation or redness develops, seek medical attention immediately.
- Inhalation:** Remove victim from source and allow to rest in well ventilated area. If breathing is difficult, obtain medical attention immediately.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

- 4.2 Most important symptoms and effects, both acute and delayed Not identified.
- 4.3 Indication of any immediate medical attention and special treatment needed Not identified.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Use media that is appropriate to treat surrounding fire. Consider alcohol-resistant foam, carbon dioxide, regular dry chemical, or water spray. Avoid heavy stream of water. Self contained breathing apparatus is required.

5.2 Special hazards arising from the substance or mixture

Evolves carbon dioxide, carbon monoxide or hydrocarbon fumes upon combustion.

5.3 Special protective actions for fire-fighters

Move container from fire area if it can be done without risk. Do not scatter spilled material with high pressure water streams. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products.

Fire fighters should wear self-contained breathing apparatus with full face piece operated in positive pressure mode and protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ventilate the area. Wear appropriate protective equipment as specified in section 8. Avoid dust formation and avoid inhalation of dust. Use a respirator or a combination filter. Keep unnecessary personnel away.

6.2 Environmental precautions

Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material. Do not dispose in canals, surface water, or ground water.

6.3 Methods and material for containment and cleaning up

Sweep, shovel, or vacuum up the material. Avoid any excess dust formation. Use caution as product may be slippery when wet. Keep product out of sewage and drainage systems and all bodies of water. Clean spills immediately. Ventilate the contaminated area. Thoroughly wash the area with water after a spill.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly with soap and water after handling. The use of respiratory protection is advised when dust concentrations exceed any established exposure limits (see section 8).

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Open containers should be resealed. Shelf life under these conditions is 18 months.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Component (CAS#): Calcium carbonate (CAS#: 471-34-1)
TLV: 10 mg/m³ TWA
PEL: 15 mg/m³ TWA (Inhalation total); 5 mg/m³ TWA (inhalation respirable)

8.2 Appropriate engineering controls:

Use process enclosure, general dilution ventilation, or local exhaust systems, where necessary to maintain airborne dust concentrations below the applicable regulations. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

8.3 Individual protection measures

Eye/face: Protective goggles or face shields.

Skin: Wear impervious gloves and general purpose overalls with elasticized cuffs and leg bottoms. Persons with allergies should avoid exposure.

Respiratory: Wear a dust mask or other appropriate approved respiratory protection when effective engineering controls are not feasible or during operations that generate airborne dust concentrations exceeding the relevant standards. A respiratory protection program that meets applicable

requirements whenever workplace conditions warrant a respirator's use.
Persons with allergies should avoid exposure.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Physical appearance	Buff to light brown, free-flowing powder
(b) Odor	Not available
(c) Odor Threshold	Not available
(d) Bulk Density	63.4 lb/ft ³ (1017.8 kg/m ³)
(e) pH	Not available
(f) Melting point/freezing point	Not available
(g) Initial boiling point	Not available
(h) Flash point	Not available
(i) Evaporation rate	Not available
(j) Flammability	Not available
(k) Upper/lower flammability or explosive limits	Not available
(l) Vapour pressure	Not available
(m) Vapour density	Not available
(n) Relative density	Not available
(o) Solubility	Not available
(p) Partition coefficient: n-octanol/water	Not available
(q) Auto ignition temperature	Not available
(r) Decomposition temperature	Not available
(s) Viscosity	Not available

9.2 Other information

To the best of our knowledge the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

SECTION 10: Stability and reactivity

10.1	Reactivity	Not available
10.2	Chemical stability	Product is stable under normal storage conditions (21 °C, 1 atm).
10.3	Possibility of hazardous reactions	Not available
10.4	Conditions to avoid	Avoid moisture, heat and sources of ignition.
10.5	Incompatible materials	Not available
10.6	Hazardous decomposition products	Not available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

(a) Acute toxicity	Calcium carbonate (CAS#: 471-34-1) Oral [rat]: 6450 mg/kg
(b) Skin corrosion/irritation	Not expected to be toxic. Exposure may cause irritation.
(c) Serious eye damage/irritation	Not available
(d) Respiratory or skin sensitization	Not available
(e) Germ cell mutagenicity	Not available
(f) Carcinogenicity	Not applicable

- (g) Reproductive toxicity Not applicable
- (h) STOT-single exposure Not applicable
- (i) STOT-repeated exposure Not applicable
- (j) Aspiration hazard Not applicable

- 11.2 Information on the likely routes of exposure Not applicable
- 11.3 Symptoms related to the physical, chemical and toxicological characteristics Not applicable
- 11.4 Delayed and immediate effects and also chronic effects from short and long term exposure Not applicable
- 11.5 Other information
 Other toxicological information: To the best of our knowledge the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

SECTION 12: Ecological information

- 12.1 Toxicity
 - Component (CAS#): Not available
 - Test & Species:
- 12.2 Persistence and degradability Not available
- 12.3 Bioaccumulative potential Not available
- 12.4 Mobility in soil Not available
- 12.6 Other adverse effects Not available

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods Not identified
 Disposal Instructions: Consult local, state and/or provincial environmental regulatory authorities for acceptable disposal procedures and locations. Follow standard disposal procedures in accordance with Directive 2008/98/EC of the European Parliament and of the Council of the Member State.

SECTION 14: Transport Information

- 14.1 UN number Not applicable
- 14.2 UN proper shipping name Not applicable
- 14.3 Transport hazard class(es) Not applicable
- 14.4 Packing group Not applicable
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user Not applicable
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

SECTION 15: Regulatory Information

- 15.1 Safety, health, and environmental regulation/legislation specific for the substance or mixture Not available

SECTION 16: Other information

For Protease and Cellulase

H Phrases:

H315	Causes skin irritation
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

P Phrases:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Reference to supplemental first aid instruction.
P332+313	If skin irritation or rash occurs: Get medical advice/attention.
P337+313	If eye irritation persists: Get medical advice/attention.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P362	Take off contaminated clothing and wash before reuse
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/International regulation

Preparation Date: 27 June 2013
Issue Date: 27 June 2013
Previous Issue Date: None

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, Alltech, Inc. cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.