

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Identifier****Product Name** Aextra® PHY 10000 TPT**Other means of identification****Material Number** A14088**Recommended use of the chemical and restrictions on use****Recommended Use** Animal feed.**Details of the supplier of the safety data sheet****Supplier Address**Danisco US Inc.  
Genencor, a Danisco Division  
3490 Winton Place  
Rochester, New York 14623 USA  
+1 (585) 256-5200  
+1 (800) 847-5311**E-mail Address**

SDS.Genencor@DuPont.com

**Emergency Telephone Number**+1 (319) 368-7657. For a Distribution incident - Spill, Leak, or Accident  
CALL CHEMTREC - 800-424-9300 (within US)  
DuPont registration number 671983**2. HAZARDS IDENTIFICATION****Classification**

Respiratory sensitization

Category 1

**Label Elements****Emergency Overview****Signal Word:** DANGER**Hazard Statements**

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled



**Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P285 - In case of inadequate ventilation wear respiratory protection

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

**Hazards not otherwise classified (HNOC)****Other information**

None Known

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Description****Preparation**

Chemical Name	CAS-No	%
Starch	9005-25-8	5-10
Talc	14807-96-6	5-10
Phytase	9001-89-2	1-5
Sucrose	57-50-1	1-5

**4. FIRST AID MEASURES****First Aid Measures****Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact**

IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Ingestion**

Rinse mouth thoroughly with water. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Extinguish with alcohol-resistant foam, fire extinguishing powder or water spray.

**Unsuitable Extinguishing Media** None.**Special hazard**

None Known

**Explosion Data****Sensitivity to Mechanical Impact** No.

Sensitivity to Static Discharge No.

#### Protective Equipment and Precautions for Firefighters

Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid generation of dust and aerosols. Use personal protection recommended in Section 8.

### Environmental Precautions

Contain spill.

### Methods and material for containment and cleaning up

**Methods for Containment** Cover with absorbent or contain. Collect and dispose.

**Methods for Cleaning Up** Use appropriate personal protective equipment (PPE). Contain and/or absorb spill with inert material, then place in suitable container. Prevent runoff from entering drains, sewers or waterways.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid generation of dust and aerosols. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist.

### Conditions for safe storage, including any incompatibilities

**Conditions for safe storage, including any incompatibilities** Keep container tightly closed in a dry and well-ventilated place. Protect from light. Keep/store only in original container.

**Incompatible Products** None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Based on data available for ingredients.

Chemical Name	ACGIH TLV	OSHA 8 Hr. TWA:	NIOSH IDLH
Starch 9005-25-8	TWA: 10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA	None Known
Talc 14807-96-6	TWA: 2 mg/m <sup>3</sup>	None Known	1000 mg/m <sup>3</sup>
Sucrose 57-50-1	TWA: 10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA	None Known

### Appropriate engineering controls

**Engineering Measures** Transfer via enclosed lines. Formulate in enclosed or ventilated mixing vessels. Carefully handle the substance to minimize releases of dust/aerosols.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Wear protective gloves and protective clothing.
<b>Respiratory Protection</b>	If exposure limits are exceeded, NIOSH/MSHA approved respiratory protection should be worn.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

<b>Physical State</b>	Fine granular.
<b>Color</b>	Tan
<b>Odor</b>	Odorless.
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Boiling point / boiling range</b>	Not determined
<b>Flash Point</b>	No data available
<b>Method</b>	Not applicable
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper Flammability Limit</b>	No data available
<b>Upper explosive limits</b>	No data available
<b>Lower Flammability limit</b>	No data available
<b>Lower explosive limits</b>	No data available
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	No data available
<b>Relative density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	Soluble
<b>Partition Coefficient (n-octanol/water)</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

**10. STABILITY AND REACTIVITY****Reactivity**

Not expected.

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Avoid dust formation.

**Incompatible Materials**

None known.

**Hazardous decomposition products**

None known.

**11. TOXICOLOGICAL INFORMATION**

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Information on likely routes of exposureProduct Information**Acute toxicity**

<b>Inhalation</b>	There is no data available for this product.
<b>Eye Contact</b>	Not expected to cause eye irritation.
<b>Skin Contact</b>	Not expected to cause irritation.
<b>Ingestion</b>	Toxicity Not expected

Information on toxicological effects.

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	May cause sensitization in susceptible persons. Repeated inhalation of enzyme containing aerosol (dust or mist) can cause a respiratory allergy in some individuals.
<b>Mutagenic effects</b>	There is no data available for this product.
<b>Carcinogenicity</b>	There is no data available for this product.
<b>Reproductive effects</b>	There is no data available for this product.
<b>STOT - single exposure</b>	There is no data available for this product.
<b>STOT - repeated exposure</b>	There is no data available for this product.
<b>Aspiration hazard</b>	Not expected.

Numerical measures of toxicity*Phytase*

<b>Oral</b>	Oral LD50 (rat) > 2000 mg/kg
<b>Dermal</b>	No information available
<b>Inhalation</b>	LC50/inhalation/4h/rat >4.99 mg/l.
<b>Eye irritation</b>	Non-irritant
<b>Skin irritation</b>	Non-irritating to the skin
<b>Sensitization</b>	Not a skin sensitizer In mice
<b>Reproductive effects</b>	Developmental toxicity or reproductive toxicity Not expected.
<b>Mutagenic effects</b>	Negative in Ames assay with and without metabolic activation up to 5000 µg/plate. Negative in chromosome aberration using human lymphocytes with and without metabolic activation up to 5000 µg/ml.
<b>Systemic toxicity</b>	In a 90-day study in rats, there were no indications of toxicity or other changes attributed to treatment. A NOEL can be established at 144 mg/kg/d. (TOS).

*Starch*

<b>Eye irritation</b>	May cause mild irritation.
<b>Skin irritation</b>	May cause mild irritation.
<b>Respiratory irritation</b>	May cause mild irritation.

*Talc*

<b>Eye irritation</b>	May cause slight irritation.
<b>Skin irritation</b>	May cause slight irritation.
<b>Respiratory irritation</b>	May cause slight irritation.
<b>Sensitization</b>	Not a skin sensitizer
<b>Reproductive effects</b>	No Developmental toxicity In rats
<b>Mutagenic effects</b>	Negative in the chromosomal aberration assay. Negative in dominant lethal assay in rat up to 5000 mg/kg . Negative in DNA Damage and Repair Assay. Negative in Ames assay with and without metabolic activation up to 20 mg/plate.

*Sucrose*

<b>Oral</b>	LD50/oral/rat 29700 mg/kg.
<b>Eye irritation</b>	May cause slight irritation.
<b>Skin irritation</b>	May cause skin irritation
<b>Respiratory irritation</b>	May cause respiratory tract irritation

Chemical Name	ACGIH	IARC	NTP	OSHA
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Starch 9005-25-8	None Known	None Known	None Known	None Known
Talc 14807-96-6	None Known	Group 3	None Known	None Known
Phytase 9001-89-2	None Known	None Known	None Known	None Known
Sucrose 57-50-1	None Known	None Known	None Known	None Known

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 10802 mg/kg.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Classification based on data available for ingredients

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish
Talc 14807-96-6	No data	Brachydanio rerio LC50 = 100000 mg/L.

**Persistence and Degradability**

Based on data available for ingredients

Chemical Name	Biodegradation
Talc 14807-96-6	No data.

**Bioaccumulation/Accumulation**

No bioaccumulation potential

**Mobility**

Soluble in water

**Other Adverse Effects**

None Known

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste Disposal Methods**

Dispose of wastes in an approved waste disposal facility. Dispose of contents/containers in accordance with local regulations.

**Contaminated Packaging**

Dispose of empty containers and wastes safely. Dispose of waste product or used containers according to local regulations.

**14. TRANSPORT INFORMATION**

Harmonized Tariff Code 3507.90.7000 (for enzymes)

DEPT. OF TRANSPORTATION UN OR NA NUMBER Not regulated

**15. REGULATORY INFORMATION****U.S. Federal Regulations**

Chemical Name	SARA 313 - Threshold Values %	CERCLA/SARA - Section 302 Extremely Haz
Starch	Not listed	Not listed
Talc	Not listed	Not listed
Phytase	Not listed	Not listed
Sucrose	Not listed	Not listed

**16. OTHER INFORMATION**

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