

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** Aextra® PHY GOLD 2.5 T

**Other means of identification**

**Product Code** A14177

**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 (US and Canada)  
DuPont registration number 671983

## 2. HAZARDS IDENTIFICATION

**Classification**

Respiratory sensitization	Category 1
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**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

**Hazards not otherwise classified (HNOC)****Other Hazards. Risk which are not included in the classification criteria (e.g. dust explosion hazard)**

None known

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

Chemical Name	CAS No.	Weight-%
Calcium carbonate	471-34-1	90-95
Phytase	9001-89-2	<1

Only components that require disclosure according to OSHA Hazard Communication Standard 2012 are listed

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**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**

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. Avoid breathing dust or spray mist. Use personal protection recommended in Section 8.

### Environmental precautions and protective procedures

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** Protect from light. Keep/store only in original container. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible Products** None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** Based on data available for ingredients

Derived minimal effect level (DMEL) of 60 ng/m<sup>3</sup> for workers and 15 ng/m<sup>3</sup> for consumers has been derived for enzyme proteins

Chemical Name	ACGIH TLV	OSHA 8 Hr. TWA:	NIOSH IDLH
Calcium carbonate 471-34-1	None known	None known	None known
Phytase 9001-89-2	None known	None known	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. Avoid generation of dust and 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

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	
<b>Physical State</b>	Granules
<b>Color</b>	Off-white to Tan
<b>Odor</b>	Typical odor of fermented product
<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>	No data available
<b>Flash Point</b>	No data available
<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>	No data available
<b>Vapor Density</b>	No data available
<b>Bulk Density</b>	1.20-1.60 kg/l
<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>Dynamic 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**

None known.

**Incompatible Materials**

None known.

**Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information****Acute Toxicity**

**Inhalation**

No data available.

**Eye Contact**

See section 2 for classified hazards based on component information

**Skin Contact  
Ingestion**See section 2 for classified hazards based on component information  
Toxicity Not expected**Information on toxicological effects****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>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	No data available.
<b>Reproductive effects</b>	No data available.
<b>STOT - single exposure</b>	No data available.
<b>STOT - repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	Not expected.

**Numerical measures of toxicity****Component Information**

Classification based on data available for ingredients

*Calcium carbonate*

<b>Oral</b>	Oral LD50 (rat) 6450 mg/kg
<b>Eye irritation</b>	Non-irritant
<b>Skin irritation</b>	Not expected
<b>Respiratory irritation</b>	Irritating to respiratory system

*Phytase*

<b>Oral</b>	Oral LD50 (rat) > 5000 mg/kg
<b>Dermal</b>	No information available
<b>Inhalation</b>	Inhalation LC50 (rat, 4 hr) >4.99 mg/L. Data obtained on this product or a similar product
<b>Eye irritation</b>	Non-irritant
<b>Skin irritation</b>	Non-irritant
<b>Sensitization</b>	Not a skin sensitizer. Respiratory sensitization: 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>	OECD Test No. 471: Bacterial Reverse Mutation Test: Negative. OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test: Negative.
<b>Systemic Toxicity</b>	OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents: Negative. NOEL (No observed effect level) = 144 mg/kg/d.

Chemical Name	ACGIH	IARC	NTP	OSHA
Calcium carbonate 471-34-1	None known	None known	None known	None known
Phytase 9001-89-2	None known	None known	None known	None known

**The following values are calculated based on chapter 3.1 of the GHS document (ATE)**

Not applicable

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Classification based on data available for ingredients

Contains 0 % of components with unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
Calcium carbonate 471-34-1	No data	LC50/96hr/Gambusia affinis: 56000 mg/L.	No data
Phytase 9001-89-2	No data	No data	No data

**Persistence and Degradability**

Based on data available for ingredients

Chemical Name	Biodegradation
Calcium carbonate 471-34-1	No data
Phytase 9001-89-2	No data

**Bioaccumulation/Accumulation**

No bioaccumulation potential

**Mobility**

Soluble in water

**Other Adverse Effects**

None known

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****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 system code**

3507.90.7000 (for enzymes)

**Dangerous Goods Class**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

**15. REGULATORY INFORMATION****US Federal Regulations**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications

Chemical Name	SARA 313 - Threshold Values %	CERCLA/SARA - Section 302 Extremely Haz
Calcium carbonate	Not listed	Not listed
Phytase	Not listed	Not listed

Chemical Name	California Proposition 65
Calcium carbonate 471-34-1	Not listed
Phytase 9001-89-2	Not listed

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**16. OTHER INFORMATION**

Prepared By SDS.Genencor@DuPont.com

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Revision Number 1

SDS sections updated None.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet