

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

Product identifier

Product Name Axtra® PHY GOLD 10 L

Other means of identification

Product Code A14175

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
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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-%
Phytase	9001-89-2	1-5

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 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
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

Appearance	
Physical State	Liquid
Color	Brown
Odor	Typical odor of fermented product
Odor Threshold	No data available
pH	4.9-5.4
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash Point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Upper Flammability Limit	No data available
Upper explosive limits	No data available
Lower Flammability Limit	No data available
Lower explosive limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Bulk Density	No data available
Specific Gravity	1.16
Water Solubility	Soluble
Partition Coefficient (n-octanol/water)	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Dynamic viscosity	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

If applicable: See section 2 for classified hazards based on component information

Skin Contact

If applicable: See section 2 for classified hazards based on component information

Ingestion

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

Sensitization May cause sensitization in susceptible persons. Repeated inhalation of enzyme containing aerosol (dust or mist) can cause a respiratory allergy in some individuals.

Germ cell mutagenicity No data available.

Carcinogenicity No data available.

Reproductive effects No data available.

STOT - single exposure No data available.

STOT - repeated exposure No data available.

Aspiration hazard Not expected.

Numerical measures of toxicity

Component Information Classification based on data available for ingredients

Phytase

Oral Oral LD50 (rat) > 2000 mg/kg

Dermal No information available

Inhalation LC50/inhalation/4h/rat >4.99 mg/l

Eye irritation Non-irritant

Skin irritation Non-irritating to the skin

Sensitization Skin sensitization: Not a skin sensitizer in mice. 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.

Mutagenic effects 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

Systemic Toxicity In a 90-day study in rats, there were no indications of toxicity or other changes attributed to treatment. A NOAEL can be established at 144 mg/kg/d (TOS).

Chemical Name	ACGIH	IARC	NTP	OSHA
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
Phytase 9001-89-2	No data	No data	No data

Persistence and Degradability

Based on data available for ingredients

Chemical Name	Biodegradation
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
Phytase	Not listed	Not listed

Chemical Name	California Proposition 65
Phytase 9001-89-2	Not listed

16. OTHER INFORMATION**Prepared By**

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1

SDS sections updated

First edition in this format.

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