

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

Product Identifier

Product Name Axta PHY 25000 G

Other means of identification

Product Code A14132

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 information**

None known

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

Chemical Name	CAS No.	%
Phytase	9001-89-2	2-7

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

Issuing Date 07/27/2015
Revision Date 07/27/2015

Americas GHS Format
Page 2 / 6

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

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. Ensure adequate ventilation.

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.

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

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, NIOSH/MSHA approved respiratory protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Granules
Color	Off-white to Light Tan
Odor	No data available
Odor Threshold	No data available
pH	No data available
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
Relative density	No data available
Specific Gravity	No data available
Water Solubility	Soluble
Partition Coefficient (n-octanol/water)	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
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

Avoid dust formation.

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	Not expected to cause eye irritation.
Skin Contact	Not expected to cause irritation.
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

Mutagenic effects	aerosol (dust or mist) can cause a respiratory allergy in some individuals.
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	Not a skin sensitizer In mice. May cause sensitization in susceptible persons. Repeated inhalation of enzyme containing aerosol (dust or mist) can cause a respiratory allergy in some individuals.
Reproductive effects	Developmental toxicity or Reproductive toxicity Not expected.
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 NOEL 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

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

Persistence and Degradability

Based on data available for ingredients

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 Tariff Code 3507.90.7000 (for enzymes)

DOT UN/NA Number Not regulated

15. REGULATORY INFORMATION**US Federal Regulations**

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

16. OTHER INFORMATION

Prepared By SDS.Genencor@DuPont.com

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SDS sections updated None.

Disclaimer

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End of Safety Data Sheet