

Section 1: IDENTIFICATION

Product Name Axtra® PHY 3000 TPT
Material Number A14124
Formula Not applicable
Synonyms Not applicable
Recommended Use Animal feed.
Company/undertaking identification Danisco Animal Nutrition
 PO Box 777
 Marlborough
 Wiltshire SN81XN
 United Kingdom
 Tel: +441672 517777.
E-mail Address SDS-Genencor@Danisco.com
Emergency Telephone +1 (319) 368-7657 a Distribution incident - Spill, Leak, or Accident
 CALL CHEMTREC - 800-424-9300 (within US)
 DuPont registration number 671983

Section 2: HAZARDS IDENTIFICATION

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

Eyes May cause slight irritation.
Skin May cause slight irritation.
Inhalation May cause slight irritation.
Ingestion Not expected to be toxic by ingestion.

Aggravated Medical Conditions Atopy. Asthma.

Physical and chemical hazards None under normal use conditions.
Environmental Hazard See Section 12 for additional Ecological Information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Description Enzyme Preparation.

Chemical Name	CAS-No	%	OSHA	ACGIH
Starch	9005-25-8	1-5	15 mg/m ³ TWA 5 mg/m ³ TWA	TWA: 10 mg/m ³ A4
Talc	14807-96-6	1-5	Not Listed	TWA: 2 mg/m ³ A4
Sucrose	57-50-1	1-5	15 mg/m ³ TWA 5 mg/m ³ TWA	TWA: 10 mg/m ³ A4
Phytase	9001-89-2	<1	Not Listed	Not Listed

Axtra® PHY 3000 TPT

Section 4: 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 soap and water. If skin irritation occurs: Get medical advice/attention.
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.
Notes to Physician	May cause allergic respiratory reaction.

Section 5: FIRE FIGHTING MEASURES

Flammable Properties	Not flammable.
Suitable Extinguishing Media	Extinguish with alcohol-resistant foam, fire extinguishing powder or water spray.
Protective Equipment and Precautions for Firefighters	Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protection recommended in Section 8. Avoid generation of dust / aerosols. Avoid breathing dust or spray mist.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid generation of dust / aerosols. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Handle in accordance with good industrial hygiene and safety practice.
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
Technical Measures/Precautions	Ensure adequate ventilation

Axtra® PHY 3000 TPT

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Based on data available for ingredients

Chemical Name	CAS-No	ACGIH TLV	OSHA 8 Hr. TWA:
Starch	9005-25-8	TWA: 10 mg/m ³	15 mg/m ³ TWA 5 mg/m ³ TWA
Talc	14807-96-6	TWA: 2 mg/m ³	
Sucrose	57-50-1	TWA: 10 mg/m ³	15 mg/m ³ TWA 5 mg/m ³ TWA

Occupational Exposure 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.

Personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles)
Skin and Body Protection Impervious gloves.
Respiratory Protection Use NIOSH approved respiratory protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white to light tan.	Odor:	Odorless.
Physical State:	Fine granular.	pH	Not applicable
Flash Point	Not applicable	Method	Not applicable
Autoignition Temperature	Not applicable	Decomposition Temperature	Not determined
Boiling point / boiling range	Not determined	Melting Point/Range	Not determined
Freezing Point	Not defined	Flammability Limits in Air	Not applicable
Explosion Limits	Not determined	Specific Gravity	Not determined
Water solubility	Soluble	Evaporation Rate	Not determined
Vapor Pressure	Not determined	Vapor Density	Not determined
Bulk Density	1.2-1.6	Explosive Properties	No information available
Oxidizing Properties	No information available		

Axtra® PHY 3000 TPT

Section 10: STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	None known
Conditions to avoid	Avoid dust formation.
Hazardous Decomposition Products	None known
Hazardous Polymerization	Hazardous polymerization does not occur

Section 11: TOXICOLOGY INFORMATION

Product Information

Acute toxicity	
Oral	Not expected to be toxic by ingestion.
Dermal	No information available
Inhalation	No information available
Irritation	
Eye irritation	May cause slight irritation.
Skin irritation	May cause slight irritation.
Respiratory irritation	May cause slight irritation.
Sensitization	Repeated inhalation of enzyme containing aerosol (dust or mist) can cause a respiratory allergy in some individuals.
Systemic toxicity	There is no data available for this product.
Mutagenic effects	Not expected to cause mutagenic effects.
Reproductive effects	This product does not contain any known or suspected reproductive hazards
Carcinogenicity	There is no data available for this product.

Component Information

Classification based on data available for ingredients

Starch

Oral	LD50/oral/rat 2000 mg/kg.
Eye irritation	May cause slight irritation.
Skin irritation	May cause slight irritation.
Respiratory irritation	May cause slight irritation.

Talc

Eye irritation	May cause slight irritation.
Skin irritation	May cause slight irritation.
Respiratory irritation	May cause slight irritation.

Sensitization

Not a skin sensitizer

Mutagenic effects

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.

Reproductive effects

No Developmental toxicity In rats

Sucrose

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

Axtra® PHY 3000 TPT

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
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).
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.
Reproductive effects	Developmental toxicity or. reproductive toxicity Not expected.
Carcinogenicity	Not classified as a carcinogen by IARC, OSHA, or NTP.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity effects	Ecotoxicity unknown / Not determined.
Mobility	Soluble.
Persistence and Degradability	Enzymes are considered readily biodegradable.
Bioaccumulation/Accumulation	Bioaccumulation is unlikely.

Component Information Based on data available for ingredients

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia	Biodegradation
Talc	No data	Brachydanio rerio LC50 = 100000 mg/L.	No data.	No data.

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods	In accordance with local and national regulations.
Packaging	If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or dispose according to national or local regulations.

Axtra® PHY 3000 TPT

Section 14: TRANSPORTATION INFORMATION

Harmonized Tariff Code: 3507.90.7000 (for enzymes).

DEPT. OF TRANSPORTATION UN OR NA NUMBER Not classified as dangerous in the meaning of transport regulations.

Hazard class Not hazardous.

Packing group Not applicable

Reportable Quantity Not applicable

Section 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.
Sucrose	Not listed.	Not listed.
Phytase	Not listed.	Not listed.

U.S. State Regulations

This product does not contain any Proposition 65 chemicals.

Section 16: OTHER INFORMATION

Prepared By SDS-Genencor@Danisco.com

Issuing Date 09/18/2014

Revision Date 09/19/2014

Revision Number 1

SDS sections updated None.

Disclaimer

The information provided in this 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 SDS