

material safety data sheet

Version: 01; Issue date: Apr 09

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade name: PHYZYME[®] XP 5000L, PHYZYME[®] XP10000L
FEED ENZYME

Manufactured by: Genencor International, Jamsankoski Plant, PO Box 13, FIN
42301 Jamsankoski, Finland.

Marketed by: Danisco (UK) Ltd*, PO Box 777, Marlborough, Wiltshire, SN8
1XN, U.K.
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*
Trading as Danisco Animal Nutrition

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Liquid enzyme preparation in water.

Ingredients:	CAS No.	EINECS No.	IUB No.	Classification	Concentration*
6-Phytase	9001-89-2	Not assigned	3.1.3.26	Xn; R:42.	less than 1%

* Enzyme protein concentration

3. HAZARDS IDENTIFICATION

Liquid enzyme preparations are dust free preparations. However, inappropriate handling may cause formation of aerosols or dust. Inhalation of enzyme aerosol or dust may induce sensitization and may cause allergic type reactions in sensitized individuals.

4. FIRST-AID MEASURES

Eye contact: Rinse away with plenty of water for at least 15 minutes.
Should irritation occur, seek medical advice.

Skin contact Wash off with plenty of water

Inhalation: Remove from exposure. If irritation or allergic response occurs, consult a doctor.

Ingestion: Rinse mouth and throat thoroughly with water.

First aid facilities: Not applicable

Advice to doctor: None

5. FIRE-FIGHTING MEASURES

Protection against fire: No special requirements.

Fire extinguishing media: Water or foam.

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6. ACCIDENTAL RELEASE MEASURES

Avoid raising dust or aerosols.
Take up by a vacuum equipped with a high efficiency filter, or wet the powder and take up by mechanical means.
Dilute remainder with plenty of water.
Never use high pressure water jet.
Provide sufficient ventilation.
Wear personal protective equipment as described under section 8.
Wash contaminated clothing.

7. HANDLING AND STORAGE

Handling: Provide for sufficient ventilation. Avoid the formation of aerosols.
Take up by mechanical means.
Storage: Store in a cool, dry place. Keep containers closed when not being used.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure standards: Not available
Engineering controls: Any equipment used to handle this product, should be designed to minimize the escape of aerosols, dust and vapours. Maintain adequate local exhaust ventilation that removes contaminated air, before the air reaches the respiratory system.
Protective equipment: Wear protective clothing, protective gloves and safety goggles, when there is a risk of getting in contact with the substance. In case of insufficient ventilation, wear suitable respiratory equipment to protect against dust or aerosols.
Educational demands: Instruction in the use of this product and knowledge of this Material Safety Data Sheet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid		
Odour	Mild fermentation odour		
Solubility:	Soluble		
pH value:	4.4-4.8		
Boiling point:	Not available	Melting point:	Not available
Flash point:	Not applicable	Flammability limits:	Not applicable
Vapour pressure:	Not available	Density:	Not available

10. STABILITY AND REACTIVITY

PHYZYME XP 5000L and PHYZYME XP 10000L are stable under normal conditions of use.

Conditions to avoid: None
Materials to avoid: None
Hazardous decomposition: Not applicable

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11. TOXICOLOGICAL INFORMATION

Inhalation of enzyme aerosol or dust may induce sensitization and may cause allergic type reaction in sensitized individuals.

12. ECOLOGICAL INFORMATION

The preparation is believed not to be dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other data relating to ecotoxicity.

13. DISPOSAL CONSIDERATIONS

No special disposal method required except that it be in accordance with current local authority regulations.

14. TRANSPORT INFORMATION

This product is not considered dangerous according to ADR, RID, IMDG and IATA.

15. REGULATORY INFORMATION

Preparation does not contain ingredients listed as a dangerous substance in Annex 1 of the EEC Directive 67/548/EEC.

It is a dangerous preparation within the meaning of Directive 88/379/EEC and must be labelled as follows:



Harmful

Contains: 6-Phytase.

R42: May cause sensitisation by inhalation.

S23: Do not breathe spray.

S24: Avoid contact with skin.

S36/37: Wear suitable protective clothing and gloves.

16. OTHER INFORMATION

This data sheet complies with EU Directive 91/155 as amended. A Product Description is available on request.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. Health and safety information is directed towards the safe use rather than the commercial performance of the product.