

material safety data sheet

Version: 01; Issue date: Feb 06

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade name: GRINDAZYM GP 15000G
GRINDAZYM GP 5000G
FEED ENZYME

Manufactured by: Finnfeeds Oy *, Myllykatu 20, 65101 Vaasa, Finland.

Marketed by: Danisco Animal Nutrition, PO Box 777, Marlborough, Wiltshire, SN8 1XN, U.K.
Tel.: +44 (0)1672 517777 Fax.: +44 (0)1672 517778

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*
Trading as Danisco Animal Nutrition

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Microbial enzyme preparations on a wheat carrier

Ingredients:	CAS No.	EINECS No.	IUB No.	Classification	Concentration*
Beta glucanase	9074-99-1	232-980-2	3.2.1.4	Xn; R:42	less than 1%
Xylanase	9025-56-3	232-799-9	3.2.1.8	Xn; R:42	less than 1%

* Enzyme protein concentration

3. HAZARDS IDENTIFICATION

Inhalation of dust may cause respiratory allergy in susceptible individuals

4. FIRST-AID MEASURES

Eye contact: Rinse away with plenty of water for at least 15 minutes.

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 preferably using local exhaust ventilation. Avoid raising dust.
Take up by mechanical means.
- Storage:** Store at room temperature. 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: | Fine granular form | Melting point: | Not available |
| Odour | Mild fermentation odour | Flammability limits: | Not applicable |
| Solubility: | Not soluble | Density: | Not available |
| pH value: | Not applicable | | |
| Boiling point: | Not available | | |
| Flash point: | Not applicable | | |
| Vapour pressure: | Not available | | |

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GRINDAZYM GP15000G and GRINDAZYM GP 5000G is stable under normal conditions of use.

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

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:



Contains: Betaglucanase and xylanase.

R42: May cause sensitisation by inhalation.
S22: Do not breathe dust.
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. Changes made to this Safety Data Sheet from the previous version are of a cosmetic nature. No changes have been made to the Risk and Safety phrases. 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

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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.