



Material Safety Data Sheet

AlphaGal 140 P

1. PRODUCT AND COMPANY IDENTIFICATION

Product name AlphaGal 140 P
Product code EN140PAA
Supplier Kerry Ingredients and Flavours
1 Millington Road
Beloit, WI 53511
Tel: 608-363-1433

2. COMPOSITION / INFORMATION ON INGREDIENTS

Description: Micro granular enzyme preparation
Chemical nature / Synonyms Alphagalactosidase / Melibiase / Carbohydrase
IUB / EINECS / CAS nos. 3.2.1.22 / 232-792-0 / 9025-35-8 / 3.2.1.4 / 232-734-4 / 9012-54-8
Components contributing to the hazard: Enzyme Protein
Concentration range 1 - 10%
Classification: Xn, R42, S22-S24-S36/37

3. HAZARDS IDENTIFICATION

This product contains micro granular enzyme and therefore the risk associated with inhalation of enzyme dust is significantly reduced. Repeated inhalation of enzyme aerosol may cause sensitization and will cause allergic type responses in sensitized individuals. Respiratory symptoms are similar to those of asthma or hay fever. Prolonged skin contact may cause skin irritation.

4. FIRST AID MEASURES

Inhalation: Remove from exposure. If irritation or allergic response develops, consult a doctor.
Skin contact: Wash skin with plenty of cold water.
Eye contact: Irrigate eyes with cold water for at least 20 minutes. Obtain medical advice if irritation occurs
Ingestion: Rinse mouth thoroughly with water and drink water afterwards. Consult a doctor.

5. FIRE FIGHTING MEASURES

Suitable fire fighting extinguishing media: water, foam

6. ACCIDENTAL RELEASE MEASURES

Personal protective equipment as outlined in section 8 must be used when dealing with accidental release of product. The product is completely biodegradable. Spillages of liquid enzyme products should be dealt with immediately, to prevent drying out and formation of dust. Flush with plenty of water. Avoid splashing. Do not use high pressure or steam washing, as this results in the production of aerosols. Provide sufficient ventilation. Wash all contaminated clothing.

7. HANDLING AND STORAGE.

It is important to use handling practices that do not generate aerosols. Aerosols can develop during spillage, material transfers, pumping of air through liquid, vigorous stirring, steam cleaning and high pressure water flushing. Any operation which might create aerosol should take place in areas that are provided with adequate exhaust or other forms of mechanical control systems. It is important to prevent direct contact with skin. Operations which may create spillage and splashing must be avoided. Rubbing of the face and eyes should be avoided when wearing protective gloves that have been in contact with enzyme.
Store product in cool conditions.

IMPORTANT FOR YOUR PROTECTION

The information and recommendations contained herein are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty of representation in respect of safety in use, suitability, efficacy or otherwise including freedom from patent infringement. Users should make their own tests for their particular purpose. We cannot accept any liability for any loss, damage or infringement arising from the use of the information and recommendation contained herein



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection is necessary in circumstances where there is accidental or uncontained release of product.

Respiratory protection

Respirator approved for solid and liquid particulates including dusts and mists e.g. 3M 8810 mask or respirator with P3 filter or equivalents.

Hand Protection : Impermeable gloves

Eye Protection : Protective glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Physical state	: Brown powder	pH	: Not applicable
Odor	: Slight fermentation odor	Density	: Not applicable
Flashpoint	: Not applicable	Solubility	: Partially Soluble
Explosion properties	: Possibility of dust explosion		

10. STABILITY AND REACTIVITY

This product is stable under normal conditions of use. Enzyme dust, like other dust, can form explosive clouds at concentrations above 50 g/m³. These dust clouds have minimum cloud ignition temperature of 400 oC. No hazardous conditions or decomposition products have been identified.

11. TOXICOLOGICAL INFORMATION

Prolonged skin contact may cause irritation.

12. ECOLOGICAL INFORMATION

This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

Product and contaminated packaging must be disposed of by deep burial or incineration, in accordance with local authority regulations.

14. TRANSPORT INFORMATION

This product is not a dangerous good according to international regulations for transport

15. REGULATORY INFORMATION

It is a dangerous preparation according to the EC directive 88/379.

Labeling	Xn	: Harmful
	R42	: May cause sensitization by inhalation
	S22	: Do not breathe aerosol
	S24	: Avoid contact with skin
	S36/37	: Wear suitable protective clothing and gloves

16. OTHER INFORMATION

The information contained in this safety data sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendation or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications, for which please refer to our technical data sheet.

The content of this Safety Data Sheet complies with both the EC directive 91/155/EEC and ISO standard ISO 11014-1 and is recommended by the Association of Manufacturers of Fermentation Enzyme Products. (AMFEP)

Date of preparation 5/11/05

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