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**Material Safety Data Sheet April'07 Update**

Product Name: Yeastex 61  
Product Code: 5D01553  
Date Printed: February 11, 2013

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

Product name Yeastex 61  
Product code 5D01553  
Description Yeast food preparation  
Use Processing aid in the food/ beverage/ feed industry  
Supplier Kerry Bio-Science  
158 State Highway 320, Norwich, NY 13815 USA  
Emergency phone #:1-800-424-9300

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical nature / Synonyms Inorganic/Organic nutrients  
IUB / EINECS / CAS nos 3.2.1.3 / 232-877-2 / 9032-08-0  
Components contributing to the hazard Zinc sulphate : EINECS/ CAS nos 231-793-3 / 7733-02-0  
Manganese sulphate :EINECS/ CAS nos232-089-9 / 785-87-7  
Concentration range Zinc sulphate: < 5.0 %, Manganese sulphate: <1.0%  
Classification Xn + N ; R48/20/22 - R51/53, S22-S24-S36/37

**3. HAZARDS IDENTIFICATION**

Harmful : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
Manganese sulphate is a chronic inhalation hazard and zinc sulphate in high concentrations is an irritant to eyes, skin and mucus membrane.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**04. 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 mins. 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  
Prevent fire fighting water from entering watercourses or groundwater.  
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion .  
When heated to decomposition, this product will emit very toxic fumes including phosphorous oxides, nitrous oxides and ammonia. Fire fighters must wear appropriate respiratory equipment.

**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 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.

Store product in dry and cool conditions. Transport product in tightly closed packages, protected against humidity.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Respiratory protection:	Dust respirator (Always use an European Standard EN149 or NIOSH approve respirator)
Hand protection:	Impermeable gloves
Eye protection:	Protective glasses

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour/Physical state:	Off white powder
Odour:	Slight ammonia odour
Density:	Not available
pH	Not applicable
Flashpoint:	Not applicable

### 10. STABILITY AND REACTIVITY

This product is stable under normal conditions of use. No hazardous conditions or decomposition products have been identified.

Powders can form explosive clouds at concentrations above 50g/m.<sup>3</sup> These dust clouds have a minimum cloud ignition temperature of 400°C.

**Incompatibilities:** Strong oxidizing agent

### Hazardous Decomposition

**/By-products:** Ammonia, sulphur oxides, carbon dioxide, carbon monoxide and nitrous oxides

**Conditions to avoid:** Avoid high temperatures. At temperatures above 70°C (158°F) formation of ammonia may occur.

### 11. TOXICOLOGICAL INFORMATION

Repeated inhalation of dust may cause sensitisation and will cause allergic type reactions in sensitised individual

Inhalation:	Manganese sulphate is a chronic inhalation hazard
Skin contact:	Zinc sulphate in high concentrations is an irritant to skin and mucus membrane.
Eyes	Zinc sulphate in high concentrations is an irritant to eyes.
<b>Carcinogenicity:</b>	Not listed by IARC, NTP, or OSHA.

### 12. ECOLOGICAL INFORMATION

This product contains phosphates which can enhance eutrophication of waters. Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment

### 13. DISPOSAL INFORMATION

Product and contaminated packaging must be disposed of in accordance with local authority regulations.

#### Liquid

Surplus liquid spills may be disposed of to municipal / waste water treatment plants as it is biodegradable, or in accordance with local authority regulations.

#### Liquid packaging:

Containers should be drained of excess residue and rinsed with water. The containers may then be recycled / reused or disposed of as in accordance with local authority regulations.

#### Powder :

Powder may be disposed of to landfill / incineration as in accordance with local authority regulations.

#### Powder packaging:

Care should be taken to ensure that the packaging is free from any enzyme residues before it can be sent for recycling/reuse or further disposal 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**

**US Federal**

**TSCA**

Manganese sulphate and zinc sulphate are listed on the TSCA inventory

**SARA Codes**

Zinc sulphate: acute. Manganese sulphate: chronic.

**Section 313**

Zinc sulfate is not at a high enough concentration to be reportable under Section 313.

**European** labelling in accordance with EC directives.

Labelling

Xn	Harmful
N	Danger to environment
R48/20/22	Danger of serious damage to health by prolonged exposure through inhalation and if swallowed
R51/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S22	Do not breathe dust
S24	Avoid contact with skin
S36/37	Wear suitable protective clothing and gloves

**16. OTHER INFORMATION**

**Supersedes edition of : 15/ 07/ 04 Reason for alteration : Update of Supplier's details**

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 2001/58/EC and ISO standard ISO 11014-1.

Date of preparation : 19/04/07

Issue no. 5

Kerry Food Ingredients (Cork) Ltd. Registered in Ireland No 290428

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