

Material Safety Data Sheet

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Issue Date: 21st August 2008

ISSUED by Southern Biological

Product Name: Enzymes in solid or liquid form

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name Southern Biological (ABN 25 838 926 933)
Address 19-21 Worrell Street, Nunawading, Victoria 3131, Australia
Tel/Fax Tel: +61 3 9877 4597 Fax: +61 3 9894 2309

IDENTIFICATION

Product Name Enzymes in solid form (powder) or liquid form with the following product codes:

MC23.05	Catalase	MC23.1	Trypsin
MC23.2	Pepsin	MC23.26	Pancreatin
MC23.31	Amylase (clarase)	MC23.35	Amylase (diastase)
MC23.41	Lipase	MC23.65	Cellulase
MC23.7	Pectinase	MC23.8	Protease
MC23.92	Urease		

UN Number None allocated
DG Class None allocated
Packing Group None allocated
Hazchem Code None allocated
Poisons Schedule None allocated
Product Use Experimental scientific investigations in education

Physical Data

Appearance White to tan coloured powder, or colourless to brown coloured liquid
Melting Point Not determined
Boiling Point Not determined
Vapour Pressure Not determined
Specific Gravity Not determined
Flash Point Not determined
Flamm. Limit LEL Not determined
Flamm. Limit UEL Not determined
Solubility in Water Active components are soluble. Inactive diluent, which may be present in some solid forms, may be insoluble.

Other Properties

pH Value Not determined
Stability Susceptible to decomposition on heating
Haz. Polymerization Will not occur

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Ingredients

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Enzymes	various	10 - 95%
	Ingredients determined not to be hazardous.		Balance

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	May cause local skin irritation to mouth and throat
Acute - Eye	May cause irritation
Acute - Skin	May cause irritation and allergic sensitization
Acute - Inhaled	May cause sensitization by inhalation of dust or aerosol (mist)
Chronic -	Repeated inhalation of dust or aerosol (mist) can cause sensitization in some cases

First Aid

Swallowed	Drink water to dilute stomach contents. Rinse mouth. Do not induce vomiting. Obtain medical attention if symptoms warrant.
Eye	Rinse thoroughly with water. Obtain medical attention if irritation occurs and soreness or redness persists.
Skin	Wash thoroughly with soap and water. Remove contaminated clothing and wash before re-use. Obtain medical attention if irritation occurs and persists, or if allergic symptoms develop.
Inhaled	Remove from the source of exposure and provide access to fresh air. Obtain medical attention if breathing difficulties develop.
First Aid Facilities	Eye wash station, safety shower and normal washroom facilities.

Advice to Doctor

Advice to Doctor Treat symptomatically.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits	Exposure limits have not been established. Avoid inhalation of dust and aerosol mists.
Eng. Controls	Observe basic principles of laboratory hygiene. In particular, use handling methods that minimize generation of dust and aerosols (mist).

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Personal Protection

Personal Protection Wear safety glasses and suitable protective clothing. Gloves (rubber or vinyl) will help avoid skin contact during handling. If engineering controls are not effective in controlling airborne exposure to dust and aerosols, suitable respiratory protection should be worn.

Flammability

Fire Hazards Not a fire or explosion hazard

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions Store under refrigeration and keep containers tightly sealed when not in use.

Transport Not classified as Hazardous for transport

Spills and Disposal

Spills & Leaks Dampen powders with a fine water spray to suppress dust. Use an absorbent material to absorb liquids. Collect residue in a closed disposal container. Thoroughly wash the affected area after the main spill has been removed.

Disposal Dispose of according to relevant local, state and federal government regulations.

OTHER INFORMATION

Toxicology No toxicology data available

Information on Ecological Effects Readily soluble or dispersible in water, and expected to be readily biodegradable. Not expected to bioaccumulate or to exert ecotoxicity

Risk Statement R42 May cause sensitization by inhalation

Safety Statement S13 Keep away from food, drink and animal feed

S36 Wear suitable protective clothing

S37 Wear suitable gloves

S45 If you feel unwell, seek medical advice

S64 If swallowed, rinse mouth with water. Avoid inhalation of dust or aerosols (mist). Avoid contact with skin and eyes.

Hazard Category Xn Harmful

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CONTACT POINT

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