



Material Safety Data Sheet

Issue Date: 13th October, 2009

Approved by Megazyme International Ireland Ltd.

Infosafe Number:**Product Name:** L-Malic Acid (MegaQuant Format) Assay Kit
Not Hazardous**COMPANY DETAILS:**

Company Name	Megazyme International Ireland Ltd.
Address	Bray Business Park, Southern Cross Road, Bray, Co. Wicklow, Ireland.
Emergency Telephone	+353-1-2861220
Tel/Fax	Tel: +353-1-2861220/Fax: +353-1-2861264
Other Information	The information and recommendations contained herein are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation in respect of safety in use, suitability efficiency or otherwise, including freedom from patent infringements. 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 or recommendations contained herein.

IDENTIFICATION:

Product Code	K-LMALMQ
Product Name	L-Malic Acid (MegaQuant Format) Assay Kit
Proper Shipping Name	as above
Other Names	None Listed
UN Number	None Allocated
DG Class	None Allocated
Packing Group	None Allocated
Hazchem Code	None Allocated
Poisons Schedule	Not Scheduled

PHYSICAL DATA:

Appearance	Two glass vials, 1 polypropylene vial + two plastic vials (one black/one white)
Specific Gravity	Not applicable
Solubility in Water	Readily soluble

OTHER PROPERTIES:

pH Value	7.0
Odour	none
Form	powders and liquids
Stability	stable in a freezer for ten or more years

INGREDIENTS:

Ingredients	Name	CAS	Proportion
Glycylglycine buffer			One vial (polypropylene)
Tablets containing NAD/INT/FAD and GOT			One vial (black plastic)
L-Malate dehydrogenase enzyme			One 7 ml vial (glass)
L-Malic acid standard solution			One 7 ml vial (glass)
Tablets containing PVPP			One vial (white plastic)



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HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute - Swallowed	Ingestion of dust may irritate the gastro-intestinal tract.
Acute - Eye	May irritate eyes.
Acute - Skin	May cause irritation
Acute - Inhaled	Inhalation of dust will irritate the respiratory tract
Chronic	Long term exposure to dusts can cause respiratory irritation.

FIRST AID

Swallowed	Drink plenty of water. Never give anything by mouth to an unconscious person.
Eye	Flush eyes with copious amount of water. If irritation occurs, seek medical advice.
Skin	Flush with water. If irritation occurs, obtain medical attention.
Inhaled	Remove to fresh air. If discomfort occurs, seek medical attention.

Advice to Doctor

Other Health Hazard Information

PRECAUTIONS FOR USE

Personal Protection

Respirator Type (AS 1716)	Respirator approved for solid and liquid particulates, including dusts and mists, e.g. 3M 8810 mask or respirator with P3 filter or equivalents.
Eye Protection	Splash goggles or safety glasses.
Glove Type	Rubber or vinyl gloves.
Clothing	Lab Coat or Overalls
Other Information	Avoid unnecessary breathing of dust. Handle in accordance with good occupational hygiene and safety practices.

Flammability	Non flammable
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SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions	Store in a cool dry place. Stable in a refrigerator for at least 5 years when stored dry.
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Handling Enzyme preparations contain 0.02% concentration of sodium azide. This is a poisonous chemical. When handling this solution, it is recommended that protective gloves and glasses be worn. Powdered enzymes should be handled with care and under precautions to avoid inhalation of dust. Airborne dust or aerosols can develop during spillage, material transfers or vigorous stirring of solutions. Any operation which might create dust or aerosol should take place in areas that are provided with adequate exhaust or other forms of mechanical control systems. It is important to avoid direct contact with skin. Rubbing of the face or eyes should be avoided when wearing protective gloves that have been in contact with enzyme.

Proper Shipping Name None Allocated

Spills and Disposal

Spills and Disposal Remove large spillages by mopping with an absorbent cloth. Flush remainder with plenty of water.

Disposal Sanitation landfill or incineration in accordance with local, state and federal regulations.

Fire/Explosion Hazard

Fire Fighting Procedure No risks are involved
Extinguishing Media Water, Foam
Hazchem Code None Allocated

OTHER INFORMATION

Risk Statement May cause sensitization by inhalation.
Safety Statement Do not breathe dust.
Hazard Category Not Harmful.

CONTACT POINT

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