



Material Safety Data Sheet

Issue Date: 9th October, 2009

Approved by Megazyme International Ireland Ltd.

Product Name: L-Ascorbic Acid Assay Kit**Hazardous****COMPANY DETAILS:**

Company Name	Megazyme International Ireland Ltd.
Address	Bray Business Park, Southern Cross Road, Bray, Co. Wicklow, Ireland.
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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-ASCO
Product Name	L-Ascorbic Acid 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	Six glass vials.
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 five or more years

INGREDIENTS:

Ingredients	Name	CAS	Proportion
Sodium phosphate/sodium citrate buffer			1 vial (glass)
MTT [3-(4,5-dimethylthiazolyl-2)-2,5-diphenyltetrazolium bromide]			1 vial (glass)
PMS (electron carrier compound)			2 vials (glass)
Ascorbic acid oxidase enzyme			1 vial (glass)
L-Ascorbic acid (vitamin C) standard			1 vial (glass)



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HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute - Swallowed	Ingestion of large quantities of MTT could be lethal.
Acute - Eye	Will irritate eye.
Acute - Skin	MTT may cause irritation
Acute - Inhaled	MTT: Inhalation of dust will irritate the respiratory tract
Chronic	Long term exposure to MTT can cause respiratory irritation.

FIRST AID

Swallowed	MTT: If swallowed, call a physician immediately.
Eye	MTT: Immediately flush eyes with copious amount of water. If irritation occurs, seek medical advice.
Skin	MTT: Flush with plenty of water. If irritation occurs, obtain medical attention.
Inhaled	MTT: 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	Keep locked up. Keep away from heat. Keep container tightly closed. Do not store above 20°C.
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Handling

MTT may be harmful if inhaled, absorbed through skin or swallowed. May cause heritable genetic effects based on animal data. CAS No. 298-93-1; EC Number 206-069-5.

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 If MTT is inhaled, remove to fresh air. If large quantities of this material are swallowed, call a physician immediately. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing. In case of contact, immediately flush eyes with plenty of water.

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

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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