



# Material Safety Data Sheet

Issue Date: 9th October, 2009

Approved by Megazyme International Ireland Ltd.

**Product Name:** Arginine/Urea/Ammonia Assay Kit  
**Non-Hazardous**

**COMPANY DETAILS:**

<b>Company Name</b>	<b>Megazyme International Ireland Ltd.</b>
<b>Address</b>	Bray Business Park, Southern Cross Road, Bray, Co. Wicklow, Ireland.
<b>Emergency Telephone</b>	+353-1-2861220
<b>Tel/Fax</b>	Tel: +353-1-2861220/Fax: +353-1-2861264
<b>Other Information</b>	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:**

<b>Product Code</b>	<b>K-LARGE</b>
<b>Product Name</b>	<b>Arginine/Urea/Ammonia Assay Kit</b>
<b>Proper Shipping Name</b>	as above
<b>Other Names</b>	None Listed
<b>UN Number</b>	None Allocated
<b>DG Class</b>	None Allocated
<b>Packing Group</b>	None Allocated
<b>Hazchem Code</b>	None Allocated
<b>Poisons Schedule</b>	Not Scheduled

**PHYSICAL DATA:**

<b>Appearance</b>	Four glass vials and two plastic vials (one white and one black).
<b>Specific Gravity</b>	not applicable
<b>Solubility in Water</b>	Readily soluble.

**OTHER PROPERTIES:**

<b>pH Value</b>	7.0
<b>Odour</b>	none
<b>Form</b>	powders and liquids
<b>Stability</b>	stable in a freezer for five or more years

**INGREDIENTS:**

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
TEA buffer			1 vial (plastic)
Tablets containing NADPH			1 vial (black plastic)
Glutamate dehydrogenase suspension			1 vial (glass)
Urease enzyme suspension			1 vial (glass)
Arginase enzyme suspension			1 vial (glass)
Ammonia control solution			1 vial (glass)



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## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS

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

### FIRST AID

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

### Advice to Doctor

### Other Health Hazard Information

### PRECAUTIONS FOR USE

#### Personal Protection

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

<b>Flammability</b>	non flammable
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### SAFE HANDLING INFORMATION

#### Storage and Transport

<b>Storage Precautions</b>	Store in a cool dry place. Stable in a refrigerator for at least 5 years when stored dry.
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**Handling**

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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