

Material Safety Data Sheet

Alkaline Phosphatase

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Alkaline Phosphatase

Catalog Numbers: 7200-003

Use: For in vitro diagnostic use and for the quantitative determination of Alkaline Phosphatase in serum on the Olympus Demand[®] and Reply[®].

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AUSTRALIA

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Contact Point

Australia

Quality Assurance Manager:

Tel: +61 3 9790 4100

Mon – Fri 9:00am to 5:00pm

U.S.A

Chemtel

24 Hour Emergency Assistance

1-800-255-3924

2. HAZARDS IDENTIFICATION

Not Classified as hazardous according to the EU criteria

Hazard Classification: NON-HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

Hazard Category: None allocated

RISK PHRASES

None allocated

SAFETY PHRASES

Substrate:

S22 Do not breath dust.

Diluent:

S23 Do not breathe vapour.

Poison Schedule: None allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
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All ingredients determined not to be hazardous according to the EU criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, **DO NOT** induce vomiting. If conscious, give 1 to 2 glasses of water to drink. Seek immediate medical assistance.

Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.

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4. FIRST AID MEASURES (continued)

Inhaled:

Move victim to fresh air. Apply resuscitation if victim is not breathing.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor:

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126

In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

Hazardous Decomposition Products: Decomposes on heating emitting noxious smoke.

Fire Fighting Procedures: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

Flammability**Substrate**

This material is not a combustible or flammable solid.

Diluent

This material is not a combustible or flammable liquid.

6. ACCIDENTAL RELEASE MEASURES

Substrate

Avoid generating dusts. Wear suitable protective equipment. Ventilate area. If possible wet area down to prevent high dust levels. If available, use dustless methods, such as a HEPA vacuum and filter. Otherwise, use a non-sparking shovel and place into a suitably labeled container for later disposal. Do not dry sweep.

Diluent

Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS. If large quantities of this product have spilt, then bund area using vermiculite - to prevent run off into drains and waterways. Place absorbent (vermiculite or other inert material) onto spill. Collect and seal in properly labeled containers for disposal. For small spills (less than 1 L) flush to drain with large quantities of water.

7. HANDLING AND STORAGE

Substrate

Avoid generating dusts. Store in a cool place and out of direct sunlight. Store away from oxidizing agents. Keep containers closed, when not using the product. Store at 2-8°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Store in original packages as approved by manufacturer.

Diluent

Store in a cool place and out of direct sunlight. Store away from oxidizing agents. Keep containers closed, when not using the product. Store at 2-8°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Store in original packages as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the nature of the product is a dust therefore it is recommended that an exposure standard of 10 mg/m³ for an eight hour exposure based upon Nuisance dust.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.

Personal Protection Equipment

GLOVES: Not normally required, however, for people with sensitive skins the use of neoprene or nitrile is recommended.

EYES: Spectacles with side shields to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of dusts. The use of a respirator is not normally required, however, if high dust levels are present, then the use of a suitable dust mask or half-face respirator fitted with a P1 filter is recommended. All respirators must comply with AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

	Substrate	Diluent
Appearance:	White to pale yellow powder	Clear liquid with no odour.
Boiling Point:	Not available.	Not available.
Freezing Point:	Not available.	Not available.
Vapour Pressure:	Not available.	Not available.
Specific Gravity:	Not available.	Not available.
Flash Point:	Not applicable.	Not applicable.
Flammability Limits:	Not applicable.	Not applicable.
Solubility in Water:	Completely miscible.	Completely miscible.
Other Properties		
pH:	Not available	10.55 - 10.75 @ 19 - 22°C

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting noxious smoke.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Strong oxidizing agents.

CONDITIONS TO AVOID:

Generation of high dust levels and incompatibles.

11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product, the following is expected:

Oral LD50(rat): > 2,000 mg/kg

Dermal LD50(rabbit): > 2,000 mg/kg

ACUTE HEALTH EFFECTS

Swallowed:

Swallowing large quantities may cause irritation to mouth, throat and stomach, which may lead to nausea, vomiting and diarrhoea.

Eye:

May cause mechanical irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision. These effects are anticipated to be of a transient (short acting) nature and no long term injury is envisaged.

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11. TOXICOLOGICAL INFORMATION (continued)

Skin:

May cause mild irritation to the skin.

Inhaled:

May cause irritation to the respiratory system.

Chronic:

Prolonged or repeated inhalation of the dust may cause sneezing, coughing and mucous buildup.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No information for product.

Mobility:

No information for product.

Persistence / Degradability:

No information for product.

Chemical Fate Information:

No information available.

Do not dispose of large quantities to waterways, drains or sewers.

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Normally suitable for disposal by approved waste disposal agent.

14. TRANSPORT INFORMATION

UN Number: None allocated

Proper Shipping Name: NONE ALLOCATED

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated

Road and Rail Transport:

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals.

Air Transport:

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Marine Transport:

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

15. REGULATORY INFORMATION

Poison Schedule: None allocated.

Inventory Status:

Australia (AICS)	Y
United States (TSCA)	Y
Canada (DSL)	Y
Europe (EINECS/ELINCS)	Y
Japan (MITI)	Y
South Korea (KECL)	Y

Y = all ingredients are on the inventory.

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16. OTHER INFORMATION

Issue date: June, 2004

Key Legend Information:

NOHSC - National Occupational Health & Safety Commission [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust]

AS/NZS 1716 - Respiratory protective devices. [Aust]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EU - European Union

[Aust/NZ] = Australian/New Zealand

[Int] = International

[US] = United States of America

Principal References:

Information supplied by manufacturer, reference sources including the public domain.

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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END OF MSDS