

# Material Safety Data Sheet

## Amylase EPS-G7 Reagent for Beckman Coulter™ SYNCHRON® and UniCel® Systems‡

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Amylase EPS-G7 Reagent for Beckman Coulter™ SYNCHRON® and UniCel® Systems‡

**Catalog Numbers:** A45288

**Use:** Reagent for the quantitative determination of  $\alpha$ -Amylase (1,4- $\alpha$ -D-glucan glucanohydrolase EC3.2.1.1) in human serum, plasma or urine on Beckman Coulter Synchron CX/LX and UniCel DxC Systems.

Thermo Fisher Scientific  
189 - 199 Browns Rd  
NOBLE PARK VIC 3174  
AUSTRALIA

Tel: +61 3 9790 4100

Fax: +61 3 9790 4155

E-mail: [info.clinicalchemistry@thermofisher.com](mailto:info.clinicalchemistry@thermofisher.com)

Thermo Fisher Scientific

171 Industry Drive  
Pittsburgh, PA, 15275

U.S.A

Tel: (800) 558 9115

Fax: (412) 788 6833

E-mail: [info.clinicalchemistry@thermofisher.com](mailto:info.clinicalchemistry@thermofisher.com)

#### 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

813-248-0585

### 2. HAZARD IDENTIFICATION

Not classified as hazardous according to the ASCC/NOHSC/EU criteria.

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

**Hazard Category:** None allocated.

#### RISK PHRASES

None allocated.

#### SAFETY PHRASES

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

**Poison Schedule:** None allocated [Aust].

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### SUBSTANCE NAME

#### Proportion

#### CAS Number

All ingredients determined not to be hazardous according to the ASCC/NOHSC/EU criteria.

### 4. FIRST AID MEASURES

**Swallowed:** If swallowed, and if more than 15 minutes from a hospital, **induce vomiting**, preferably using Ipecac Syrup APF.

**Eye:** If product enters the eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation develops or persists, immediately transport to hospital or doctor.

**Skin:** If product contacts the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.

**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.

# Material Safety Data Sheet

## Amylase EPS-G7 Reagent for Beckman Coulter™ SYNCHRON® and UniCel® Systems‡

### 4. FIRST AID MEASURES

**In case of poisoning, contact Poisons Information Centre**

**In Australia call Tel: 131126**

**In New Zealand Tel: 034747000**

### 5. FIRE-FIGHTING MEASURES

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

**Hazards from Combustion Products:** Decomposes on heating emitting indeterminate decomposition products.

**Precautions for Fire Fighters and Special Protective Equipment:** If safe to do so, move undamaged containers from fire area. 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.

**Hazchem Code:** None allocated.

**Flammability:** This material is not a combustible or flammable liquid.

### 6. ACCIDENTAL RELEASE MEASURES

#### Emergency Procedures

Keep unnecessary people away. Isolate hazard area and deny entry. If product spills onto floors it will represent a slip hazard, walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.

#### Methods and Materials for Containment and Cleanup Procedures

Dike area using with an absorbent such as diatomaceous earth - to prevent run off into drains and waterways. Throw further absorbent (diatomaceous earth or other inert material) on top of spill, then shovel up and seal in properly labeled containers for disposal.

### 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

Provide adequate ventilation. Avoid generating vapours.

#### Conditions for Safe Storage

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Standards

No exposure standards have been assigned by [NOHSC] for this product or any of the components.

#### Engineering Controls

Maintain adequate ventilation at all times. No other measures are required for this product.

#### Personal Protection Equipment

**Gloves:** Natural rubber.

**Eyes:** Chemical glasses or face shield for spills.

**Respiratory Protection:** Avoid breathing of vapours. The use of a respirator is not normally required, however, if entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended. Select and use respirators in accordance with AS/NZS 1715/1716.

# Material Safety Data Sheet

## Amylase EPS-G7 Reagent for Beckman Coulter™ SYNCHRON® and UniCel® Systems‡

### 9. PHYSICAL AND CHEMICAL PROPERTIES

	Reagent 1	Reagent 2
<b>Appearance:</b>	Clear and colourless liquid	Clear and colourless liquid
<b>Boiling Point:</b>	Not available	Not available
<b>Melting Point:</b>	Not available	Not available
<b>Vapour Pressure:</b>	Not available	Not available
<b>Specific Gravity:</b>	Not available	Not available
<b>Flash Point:</b>	Not applicable	Not applicable
<b>Flammability Limits:</b>	Not applicable	Not applicable
<b>Solubility in Water:</b>	Soluble	Soluble
<b>Other Properties</b>		
<b>pH:</b>	7.20 ± 0.05 @ 19-22°C	7.20 ± 0.05 @ 19-22°C
<b>Vapor Density (Air = 1):</b>	Not available	Not available
<b>Evaporation Rate (BuAc = 1):</b>	Not available	Not available
<b>Volatile Organic Compounds:</b>	Not available	Not available

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Generation of vapours.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Decomposes on heating emitting indeterminate decomposition products.

**Hazardous Reactions:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

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

Oral LD50(rat): > 5,000 mg/kg

Dermal LD50(rabbit): > 5,000 mg/kg

#### Acute Health Effects

**Swallowed:** May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

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

**Skin:** May cause mild irritation to the skin. Not anticipated to be absorbed through the skin.

**Inhaled:** If the product is heated, the vapours generated from this product may cause irritation to the mouth, throat and upper respiratory system.

**Chronic:** Prolonged or repeated skin exposure may cause skin rashes in some susceptible individuals.

### 12. ECOLOGICAL INFORMATION

No ecological information available for this product.

**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.

# Material Safety Data Sheet

## Amylase EPS-G7 Reagent for Beckman Coulter™ SYNCHRON® and UniCel® Systems‡

### 13. DISPOSAL CONSIDERATIONS

**Methods of Disposal:**

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor.

**Packaging:**

Containers of this material may retain product residues. Handle contaminated packaging in the same way as the substance itself, by disposing in accordance with all applicable federal, state and local environmental and hazardous waste regulations.

### 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.

**Hazchem Code:** 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 Labeling 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 [Aust].

**Inventory Status:**

Australia (AICS)	Y
United States (TSCA)	Y
Canada (DSL)	Y
Europe (EINECS/ELINCS)	Y

Y = all ingredients are on the inventory.

If approved for European Communities use, this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

### 16. OTHER INFORMATION

**Issue date:** August, 2007

**Key Legend Information:**

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

ASCC - Australian Safety and Compensation Council [Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

# Material Safety Data Sheet

## Amylase EPS-G7 Reagent for Beckman Coulter™ SYNCHRON® and UniCel® Systems‡

### 16. OTHER INFORMATION

AICS - Australian Inventory of Chemical Substances  
Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997) [Aust]  
EPA - Environmental Protection Agency [Int]  
NIOSH - National Institute for Occupational Safety and Health [US]  
TSCA - Toxic Substances Control Act [US]  
OSHA - Occupational Safety and Health Administration [US]  
AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]  
AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]  
Hazchem Code - Fire fighters designation [Aust]  
IATA - International Aviation Transport Authority [Int]  
ICAO - International Civil Aviation Organization [Int]  
IMO - International Maritime Organisation. [Int]  
IMDG - International Maritime Dangerous Goods [Int]  
United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]  
EINECS - European Inventory of Existing Commercial Chemical Substances. [Int]  
ELINCS - European List of Notified Chemical Substances. [Int]  
EU - European Union [Int]

**EU Directives:** The classification criteria used, are adopted from the European Community's (EC) legislation for classifying dangerous substances. The criteria are taken from:

EC Council Directive 67/548/EEC

EC Council Directive 1999/45/EC

[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 available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used. Responsibilities of the supplier associated with this product are outlined in our standard terms and conditions, a copy of which is sent to customers and is available on request.

© 2007 Thermo Fisher Scientific. All rights reserved. ‡SYNCHRON LX®/CX and UniCel® DxC are registered trademarks of Beckman Coulter Inc., Fullerton, CA 92835. All other trademarks are the property of Thermo Fisher Scientific and its subsidiaries.

License granted to make unlimited paper copies for internal use only.

**END OF MSDS**