

Material Safety Data Sheet

Infinity™ Amylase CNPG3 Liquid Stable Reagent

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Infinity Amylase CNPG3 Liquid Stable Reagent

Catalog Numbers: TR25556.

Use: This reagent is intended for the in vitro quantitative determination of amylase in human serum.

THERMO ELECTRON
189 - 199 Browns Rd
NOBLE PARK VIC 3174
AUSTRALIA
Tel: +61 3 9790 4100
Fax: +61 3 9790 4155
E-mail: info.clinicalchemistry@thermo.com

THERMO ELECTRON
331 South 104th Street
LOUISVILLE, CO 80027
U.S.A
Tel: (303) 581 6428
Fax: (303) 581 6429
E-mail: info.clinicalchemistry@thermo.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

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO EU CRITERIA

Hazard Classification: HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

Hazard Category: Harmful (Xn)

RISK PHRASES

R22 Harmful if swallowed.

R32 Contact with acids liberates very toxic gas.

SAFETY PHRASES

S28 After contact with skin, wash immediately with plenty of soap and water.

S14 Keep away from strong mineral acids and metals (aluminum, mercury, copper, lead, zinc).

Poison Schedule: None allocated.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
SODIUM AZIDE	0.1%	22628-22-8

All other ingredients determined not to be hazardous according to the EU criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, **DO NOT** induce vomiting. Give 3 to 4 glasses of water to drink. If any symptoms appear, immediately seek medical assistance.

Eye:

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

Skin:

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

Inhaled:

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

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4. FIRST AID MEASURES (continued)

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

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. Use water spray to spray to cool fire-exposed surfaces and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits oxides of carbon, oxides of nitrogen and oxides of phosphorus when heated to decomposition.

Flammability

Material does not burn. Runoff may pollute waterways, drains or sewers.

6. ACCIDENTAL RELEASE MEASURES

Caution! Material may be slippery when spilt. Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS. Bund area using diatomaceous earth or other inert absorbent material - to prevent run off into drains and waterways. Place absorbent (diatomaceous earth or other inert material) onto spill. Use non sparking shovel and collect and seal in properly labeled containers for disposal. Remainder of material may be neutralized by cautiously adding vinegar. Collect this material after foaming/effervescence ceases and place into above labeled container.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, metals (aluminium, mercury, copper, lead zinc) and acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. When stored at 2 - 8°C reagent is stable until the expiration date stated on the bottle and kit box label. For further information please refer to the Engineering Controls of this MSDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) to the following component of the product:

SODIUM AZIDE

(Worksafe Australia)

[TWA]0.11 ppm 0.3 mg/m³

[STEL]Peak limitation

References: H**Engineering Controls**

Good industrial hygiene practice requires that employee exposure be maintained below the recommended exposure standards. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

Personal Protection Equipment

GLOVES: PVC or natural rubber.

EYES: Chemical goggles or faceshield 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 with a combined dust and organic vapour cartridge is recommended. All respirators must comply with AS/NZS 1715 and AS/NZS 1716.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless to yellow, aqueous solution with no odor.
Boiling Point:	Not available.
Freezing Point:	Not available.
Vapour Pressure:	Not available.
Specific Gravity:	1.0.
Flash Point:	Not applicable.
Flammability Limits:	Not applicable.
Solubility in Water:	Soluble.

Other Properties

pH: 6.02 ± 0.05 at 19 – 21°C

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits oxides of carbon, oxides of nitrogen and oxides of phosphorus when heated to decomposition. Thermal decomposition and reaction with acids may yield highly toxic cyanide compounds including hydrogen cyanide.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Metals (aluminium, mercury, copper, lead zinc) and acids.

CONDITIONS TO AVOID:

None determined.

11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product, however, for the ingredient:

Sodium azide:

Oral LD50(rat): 27 mg/kg

Dermal LD50(rabbit): 20 mg/kg

Oral LDLo(human): 143 mg/kg

Systemic effects: CNS disorders, cardiovascular failure, tachycardia, drop in blood pressure, coughing, dyspnoea, spasms, headache, dizziness, nausea, vomiting, collapse, unconsciousness.

ACUTE HEALTH EFFECTS

Swallowed:

Harmful if swallowed. Over exposure to sodium azide will include headache, nausea, blurred vision, dizziness, vomiting and low blood pressure. May cause irritation to mouth, throat and stomach.

Eye:

May cause irritation to the eyes, with effects including: tearing and blurred vision. These effects are anticipated to be of a short acting nature and no long term injury is anticipated, ***if the product is removed promptly.***

Skin:

May cause irritation to the skin, with effects including; Redness and itchiness.

Inhaled:

Mists from the product may cause irritation to the nose, throat and respiratory system.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis. Prolonged or repeated exposure may lead to irreversible damage to health.

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12. ECOLOGICAL INFORMATION

Environmental Degradation: Dissipation of azides in soil is not by microbial action but is strictly a chemical process, which is accelerated by increased acidity and elevated temperatures. This reaction appears to occur rapidly in soils by oxidation or by reaction of hydrazoic acid with soil organic acids to form azides of these acids which then decompose by a Curtius Rearrangement. Sodium azide appears to be stable in water in the absence of light, however, it appears to be susceptible to photo-decomposition by UV radiation. Photolysis of sodium azide may result in metal nitrides initially, with the eventual formation of the free metal and nitrogen gas.

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
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 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 [Aust]

Inventory Status:

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

Y = all ingredients are on the inventory.

16. OTHER INFORMATION

Issue date: October, 2004

Reasons for Update:

1. Alignment with the 2nd Edition of National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2001(2003).
2. Changes and /or addition made to all sections.

Key Legend Information:

NOHSC - National Occupational Health & Safety Commission [Aust]
TWA - Time Weighted Average [Int]
STEL - Short Term Exposure Limit [Int]

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16. OTHER INFORMATION (continued)

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

Regulated by: OSHA 29 CFR 1910.1200, USA / EC Directive

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.

Our responsibility for products sold is subject to our standard terms and conditions which are available on request.

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END OF MSDS