

# Material Safety Data Sheet

## Infinity™ Cholesterol Reagent

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Infinity™ Cholesterol Reagent

**Catalog Numbers:** TR13521, BU1351-BP, VT1351xxxx, UV1351xxxx-BP, VC1351xxxx

**Use:** This reagent is intended for the in vitro quantitative, diagnostic determination of cholesterol in human serum or plasma.

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

THERMO ELECTRON  
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LOUISVILLE, CO 80027  
U.S.A  
Tel: (303) 581 6428  
Fax: (303) 581 6429  
E-mail: [info.clinicalchemistry@thermo.com](mailto: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, Irritant

#### RISK PHRASES

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

#### SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Poison Schedule:** None allocated.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
SODIUM AZIDE	< 0.5 %	26628-22-8
3-(N-MORPHOLINO)-2-HYDROXYPROPANE SULFONIC ACID	< 0.5 %	1310-73-2
OTHER NON-HAZARDOUS SUBSTANCES	Balance	Mixture

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

### 4. FIRST AID MEASURES

#### Swallowed:

If swallowed, **DO NOT** induce vomiting. If victim 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 oxides of carbon, oxides of nitrogen and oxides of sulfur.

**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**

This material is not a flammable or combustible liquid.

### 6. ACCIDENTAL RELEASE MEASURES

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 sand or soil - 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.

### 7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from strong acids. 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 following exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) to the following components of the product:

**SODIUM AZIDE**

(Worksafe Australia)

[TWA]0.11 ppm 0.3 mg/m<sup>3</sup>

[STEL]Peak limitation

**References:** H**Engineering Controls**

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

**Personal Protection Equipment**

**GLOVES:** Nitrile or neoprene.

**EYES:** Chemical goggles or faceshield to protect eyes.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

**RESPIRATORY PROTECTION:** Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a combined organic vapour and P1 half-face respirator is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear liquid with no odour.
<b>Boiling Point:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Vapour Pressure:</b>	Not available.
<b>Specific Gravity:</b>	Not available.
<b>Flash Point:</b>	Not applicable.
<b>Flammability Limits:</b>	Not applicable.
<b>Solubility in Water:</b>	Completely miscible.

#### Other Properties

**pH:** 6.70 ± 0.10 @ 19 - 22°C (at use concentrations)

### 10. STABILITY AND REACTIVITY

#### STABILITY:

Stable under normal conditions of use.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting oxides of carbon, oxides of nitrogen and oxides of sulfur.

#### HAZARDOUS POLYMERIZATION:

Will not occur.

#### INCOMPATIBILITIES:

Strong mineral acids (sulfuric, nitric and hydrochloric).

#### CONDITIONS TO AVOID:

Incompatibles.

### 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

#### ACUTE HEALTH EFFECTS

##### Swallowed:

Harmful if swallowed. Over exposure to sodium azide will include headache, nausea, blurred vision, dizziness and low blood pressure. 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:

Will cause 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 anticipated, ***if the product is removed promptly.***

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### 3. HAZARD IDENTIFICATION (continued)

**Skin:**

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

**Inhaled:**

Mists from the product will 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.

### 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.

**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: July, 2004

#### Reasons for Update:

1. Alignment with the 2<sup>nd</sup> 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]

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**