

Material Safety Data Sheet

Calcium Standard

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Calcium Standard

Catalog Numbers: TR29923, BU2991-10-BP, UV2991xxxx-BP, VC2991xxxx, VT2991xxxx

Use: This reagent is intended for the calibration of Calcium Assays. It is for in vitro diagnostic use only.

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

Contact Point

Australia

Quality Assurance Manager:

Tel: +61 3 9790 4100

Mon – Fri 9:00am to 5:00pm

THERMO ELECTRON

171 Industry Drive
Pittsburgh, PA, 15275

U.S.A

Tel: (800) 558 9115

Fax: (412) 788 6833

E-mail: info.clinicalchemistry@thermo.com

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 in this product are not 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 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.

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

Calcium Standard

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

Fire/Explosion Hazard

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

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

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.

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 Clean Up 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:

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. For further information please refer to the Engineering Controls of this MSDS.

Conditions for Safe Storage:

Keep containers tightly closed, when not using this 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 packaging, as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

The National Occupational Health & Safety Commission (NOHSC) has not assigned any exposure standards for this product or for 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: Goggles or faceshield for spills.

RESPIRATORY PROTECTION: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colourless liquid .

Boiling Point Melting Point: Not available.

Melting Point: Not available.

Vapour Pressure: Not available.

Specific Gravity: Not available.

Flash Point: Not applicable.

Material Safety Data Sheet

Calcium Standard

9. PHYSICAL AND CHEMICAL PROPERTIES

Flammability Limits: Not applicable.
Solubility in Water: Soluble.

Other Properties

Vapor Density (Air = 1): Not available.
Evaporation Rate (BuAc = 1): Not available.
Volatile Organic Compounds: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.
Conditions to Avoid: Generation of mists.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Decomposes on heating emitting oxides of carbon.
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 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.

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

Inhaled: May cause irritation to the mouth, throat and upper respiratory system.

Chronic: Prolonged or repeated skin exposure may cause dermatitis 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.

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.

Material Safety Data Sheet

Calcium Standard

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
Label: 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

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, 2006

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]
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]

Material Safety Data Sheet

Calcium Standard

16. OTHER INFORMATION

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.

© 2003 - 2006 Thermo Electron Corporation. All rights reserved.

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

END OF MSDS