

Material Safety Data Sheet

Copper Standard

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Copper Standard

Manufacturer's Product Code: TR61901, UV6191xxxx-BP, VC6191xxxx, VT6191xxxx

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

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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

S23 Do not breathe vapour.

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 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.

Inhaled:

Move 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

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

Hazards From Combustion Products: Primary decomposition products include oxides of carbon, and oxides of nitrogen.

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.

HAZCHEM Code: None allocated [Aust].

Flammability

This material is not a flammable or combustible liquid.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Keep unnecessary people away; Isolate hazard area and deny entry. **Caution!** Material may be slippery when spilt. 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:

Bund area using diatomaceous earth or other inert absorbent material - to prevent run off into drains and waterways. Throw further diatomaceous earth or other inert material onto spill and then shovel up and seal in properly labelled containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Do not swallow. Provide adequate ventilation. Avoid generating mists.

Conditions for Safe Storage:

Keep containers tightly closed in a cool place and out of direct sunlight. Store away from strong acids and oxidizers. Store at 2-25°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.

Engineering Controls

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

Personal Protection Equipment

Gloves: If handling large quantities the use of neoprene is recommended.

Eyes: Goggles or spectacles for spills.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

Respiratory Protection: Avoid breathing of mists. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Other Properties

pH: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of use.

Conditions to Avoid:

Eye and prolonged skin contact and mixing with incompatibles.

Incompatible Materials:

Strong mineral acids and oxidizers.

Hazardous Decomposition Products:

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

Hazardous Reactions:

Will not occur.

11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product, it is anticipated that the following information is applicable:

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

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

ACCUTE HEALTH EFFECTS

Swallowed:

Drinking large quantities of this product, may cause irritation to mouth, throat and stomach, which may lead to nausea, vomiting and diarrhoea.

Eye:

May cause mild irritation to the eyes, with effects including: tearing 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 mild irritation to the skin.

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11. TOXICOLOGICAL INFORMATION (Continued)

Inhaled:

May cause mild irritation to the respiratory system.

Chronic:

There is information available for this product.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

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 [Aust].

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

Date of Preparation:

Issue date: January, 2005

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]

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 [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]

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