

Material Safety Data Sheet

Infinity™ Carbon Dioxide Powder

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Infinity™ Carbon Dioxide Powder.

Catalog Numbers: TO28204, TR28221, BU2821-BP, BU2821A-BP, UV2821xxxx-BP, VC2821xxxx, VT2821xxxx.

Use: This reagent is intended for the in vitro quantitative determination of total carbon dioxide in human serum on both automated and manual systems.

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Contact Point

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Mon – Fri 9:00am to 5:00pm

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1-800-255-3924

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO EU CRITERIA

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

Hazard Category: Harmful

RISK PHRASES

R22 Harmful if swallowed.

SAFETY PHRASES

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

Poison Schedule: None allocated [Aust].

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
SODIUM AZIDE	< 0.9 %	26628-22-8
INERT FILLERS (NON-HAZARDOUS)	> 95 %	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. Give 3 to 4 glasses of water to drink. If irritation persists transport to hospital or doctor.

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

Skin: If dust 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 - If trained personnel available administer oxygen if breathing is difficult.

First Aid Facilities: Eye wash fountain, safety shower and normal wash room facilities.

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4. FIRST AID MEASURES

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: Decomposes on heating emitting 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. Full protective clothing is also recommended.

Hazchem Code: None allocated.

Flammability: Under normal circumstances this material is not a combustible or flammable solid, however, if finely dispersed in air it may represent a potential dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Avoid generating dusts. Ventilate area. If possible wet area down to prevent high dust levels. 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

Use a non-sparking shovel and seal in properly labeled containers for disposal. If available, use dustless methods, such as a HEPA vacuum and filter. Do not dry sweep.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not swallow. Avoid generating dusts and contact with skin.

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 strong acids, alkalis and oxidizing agents. Store at 2 - 8°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Keep containers tightly closed, when not using the product. 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 however, the following exposure standards have been assigned 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

Maintain adequate ventilation at all times. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection Equipment

Gloves: PVC or natural rubber.

Eyes: Chemical glasses or face shield to protect eyes.

Respiratory Protection: Avoid breathing of dusts. 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:	White free flowing powder with no odour
Boiling Point:	Not available
Vapour Pressure:	Not available
Specific Gravity:	Not available
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Solubility in Water:	Completely soluble

Other Properties

pH: 8.05 ± 0.10 @19 – 22°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Incompatibles and high temperatures.

Incompatible Materials: Strong acids, alkalis and oxidizing agents.

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, 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: Vapours 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

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

Sodium azide:

Fish toxicity: L. macrochirus LC50: 0.7 mg/l/96 Hr

Daphnia toxicity: Daphnia pulex EC50: 4.2 mg/l/96 Hr

Algal toxicity: mixed culture of green algae IC50: 272 mg/l

Bacterial toxicity: Photobacterium phosphoreum EC50: 38.5 mg/l

Pseudomonas fluorescens EC5: 2.6 mg/l

Biological effects: Highly toxic for aquatic organisms. Forms toxic mixtures in water, dilution measures notwithstanding. Herbicidal effect. Nematocidal effect.

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Advise on acidic nature. 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 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.

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16. OTHER INFORMATION

Issue date: June, 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]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons {Poison Schedule} [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances [Aust]

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]

Hazchem Code - Fire Fighter 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 Labeling of Chemicals. [Int]

EU - European Union

TSCA - Toxic Substances Control Act [US]

DSL - Domestic Substance List [Can]

EINECS - European Inventory of Existing Commercial Chemical Substances [Int]

ELINCS - Existing List of Notified Chemical Substances. [Int]

[Aust] = Australia

[Int] = International

[US] = United States of America

[Can] = Canada

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