

MATERIAL SAFETY DATA SHEET

CIA Perfect Seal

1. IDENTIFICATION

Product Name: C.I.A Perfect Seal
Other Names: Industrial Chemical
Chemical Family: Water based coating
Molecular Formula: Not available
Recommended Use: Industrial Protective Coating
Supplier: C.I.A Concrete
ABN: 46 075 158 009
Address: 20 Endeavour Drive, Kunda Park Qld 4556
Telephone: +61 7 5445 2399
Emergency Phone: Poison Information Centre +61 13 11 26

2. HAZARDS IDENTIFICATION

Hazard Classification

This product is not classified as hazardous under the SafeWork Australia criteria

Hazard Category

F: Flammable; Xn: Harmful

Risk Phrases

R 22: Harmful if swallowed

R 43: May cause sensitisation by skin contact

Safety Phrases

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection -

S 46: If swallowed, seek medical advice immediately and show this container or label

Dangerous Goods Classification NR

Poisons Schedule 5

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Dispersants	various	> 60
Water	7732-18-5	> 15
Solvents	various	< 15
Surfactants	various	< 5
Filler	various	< 5
Rheology Modifier	various	< 1

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

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First Aid Facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Water spray, fine mist, dry chemical or foam. Do not use water jets.

Hazards from combustion products

This product will not burn, but is susceptible to decomposition in extreme heat.

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code NR

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum.

Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times.

Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

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7. HANDLING AND STORAGE

Precautions for Safe Handling

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical spark).

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers – residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible Materials

None established

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: 213 mg/m³ (50 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: 426 mg/m³ (100 ppm), which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sen), where None applies in this case.

Biological Limit Values (BLV)

None specified

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Clear mobile liquid
Boiling Point/Range	°C	> 100
Flash Point	°C	> 95 (calc.)
SG/Density (@ 15°C)	g/ml; kgm ⁻³	1.02
Vapour Pressure @ 20°C	kPa	Not determined
Vapour Density @ 20°C	g/ml; kgm ⁻³	Not determined
Autoignition Temperature	°C	Not determined
Explosive Limits in Air	% vol/vol	No data available
Viscosity @ 20°C	cPs, mPas	No data available
Percent volatiles	% vol/vol	> 75
Acidity/alkalinity as pH	None	Neutral
Solubility in Water	g/l	Miscible
Other solvents	-	Water/organic solvent

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

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10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to avoid

Strong oxidising agents, excessive heat, strong acids and bases

Hazardous decomposition products

Carbon dioxide, carbon monoxide on decomposition or incomplete oxidation

Hazardous reactions

Strong oxidising agents, excessive heat, strong acids and bases

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

This product is likely to cause discomfort on swallowing and may result in gastric disturbance and soft tissue irritation.

Eye Contact

Eye contact with this product may cause discomfort, but will be relieved with First Aid.

Skin Contact

Contact with this product may result in sensitisation. Avoid contact with skin and observe first aid measures. Contact is likely to result in drying, itching, redness, and swelling.

Inhalation

Vapours at elevated temperatures will cause dizziness and drowsiness. Vapours at room temperature are not obvious. Aspiration of product will result in chemical pneumonitis and tracheal burning.

Chronic Effects

Repeated or prolonged contact with this product may result in irritation if PPE is not observed.

Other Health Effects Information

Persons with pre-existing skin or respiratory conditions will be sensitive to this product.

Toxicological Information

Oral LD₅₀: No data; consider > 5 g/kg

Dermal LD₅₀: No data; consider > 5 g/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC₅₀: No data available

Daphnia Magna EC₅₀: No data available

Blue-green algae: No data available

Green algae: No data available

Persistence/Biodegradability: This product is expected to biodegrade on exposure to UV light and air.

Mobility: This product is likely to be mobile on release to the environment.

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13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

14. TRANSPORT INFORMATION

Road and Rail Transport

UN No. NR
Proper Shipping Paint & Paint
Name related materials
DG Class NR
Sub. Risk None
Packing Group NR
Hazchem NR

Marine Transport

UN No. NR
Proper Shipping Paint & Paint
Name related materials
DG Class NR
Sub. Risk None
Packing Group NR
Hazchem NR

Air Transport

UN No. NR
Proper Shipping Paint & Paint
Name related materials
DG Class NR
Sub. Risk None
Packing Group NR
Hazchem NR

Dangerous Goods Segregation

This product is not regulated for Transport via Road and Rail.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: 5

16. OTHER INFORMATION

Reasons for Issue: New product; amalgamated supplier and regulatory updates in all sections

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

ASCC: Australian Safety and Compensation Council (2007)

PPE: Personal Protective Equipment

N/R: Non-regulated

N/A: Not applicable

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact C.I.A Concrete Pty Ltd.