

Infosafe No™ 1CHUI Issue Date : January 2022 RE-ISSUED by CHEMSUPP

Product Name **Cesium Chloride**

Classified as hazardous

## Section 1 - Identification

**Product Identifier** Cesium Chloride

**Company Name** CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

**Address** 38 - 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440-2000

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**E-mail Address** www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use** Brewing, preparation of other cesium compounds, mineral waters, evacuation of radio tubes, for a density gradient in ultracentrifuge separations, fluorescent screens, contrast medium and laboratory reagent.

<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	CAESIUM CHLORIDE	
	CAESIUM CHLORIDE AR	CA188

### Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## Section 2 - Hazard(s) Identification

**GHS Classification of the Substance/Mixture** Toxic to Reproduction: Category 2

**Signal Word** WARNING

**Hazard Statement (s)** H361 Suspected of damaging fertility or the unborn child.

**Pictogram (s)** Health hazard



**Precautionary Statement – Prevention** P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statement – Response** P308+P313 IF exposed or concerned: Get medical advice/attention.

**Precautionary Statement – Storage** P405 Store locked up.

**Precautionary Statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

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### Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Caesium Chloride	7647-17-8	100 %

### Section 4 - First Aid Measures

<b>Inhalation</b>	Remove victim to fresh air. Employ artificial respiration if indicated. Seek medical advice if effects persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately. Seek medical attention.
<b>Skin</b>	Wash with plenty of soap and water. Seek medical advice if effects persist.
<b>Eye</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
<b>First Aid Facilities</b>	Maintain eyewash fountain and drench facilities in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.

### Section 5 - Firefighting Measures

<b>Specific Methods</b>	Use measures suitable for extinguishing surrounding fire.
<b>Specific Hazards Arising from the Chemical</b>	Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
<b>Precautions in connection with Fire</b>	Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion. Use suitable protective equipment for surrounding fire.

### Section 6 - Accidental Release Measures

<b>Spills &amp; Disposal</b>	Increase ventilation. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.
<b>Personal Precautions</b>	Use personal protective equipment listed in Section 8.
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

### Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	Only use in well-ventilated areas.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry place. Keep containers closed at all times.

### Section 8 - Exposure Controls and Personal Protection

<b>Engineering Controls</b>	Use with adequate ventilation.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices.
<b>Eye and Face Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

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<b>Personal Protective Equipment</b>	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
<b>Body Protection</b>	Wear suitable protective clothing and gloves to prevent skin contact.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## Section 9 - Physical and Chemical Properties

<b>Form</b>	Solid
<b>Appearance</b>	Colourless crystals.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	646 °C
<b>Boiling Point</b>	1,297°C
<b>Solubility in Water</b>	Soluble.
<b>Solubility in Organic Solvents</b>	Soluble in alcohol. Insoluble in acetone.
<b>Specific Gravity</b>	3.972
<b>Density</b>	3.988g/cm <sup>3</sup> at 20°C
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	168.36
<b>Other Information</b>	Sublimes at 1290 °C

## Section 10 - Stability and Reactivity

<b>Reactivity</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition. Protect from moisture. Product is hygroscopic.
<b>Incompatible Materials</b>	Strong oxidising agents and acids.
<b>Hazardous Decomposition Products</b>	Hydrogen chloride. Cesium oxides.

## Section 11 - Toxicological Information

<b>Toxicology Information</b>	Oral LD50 (rat): 2600 mg/kg
<b>Ingestion</b>	Caesium compounds may cause hyper-irritability, including spasms, dizziness, abdominal cramps, vomiting, diarrhea, convulsions and collapse.
<b>Inhalation</b>	May cause irritation.
<b>Skin</b>	May cause irritation.
<b>Eye</b>	Contact with eyes may cause mechanical irritation.
<b>Reproductive Toxicity</b>	Reproductive effects have been observed on tests with laboratory animals.
<b>Mutagenicity</b>	Mutagenic effects have been observed on tests with laboratory animals.
<b>Chronic Effects</b>	Possible risks of irreversible effects. Chronic ingestion of caesium has been fatal to laboratory animals, possibly due to the replacement of potassium. Chronic exposure also can have blood and neuromuscular effects.

## Section 12 - Ecological Information

<b>Ecological Information</b>	No data available.
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## Section 13 - Disposal Considerations

**Disposal Considerations** Dispose of according to relevant local, state and federal government regulations.  
Dispose of as hazardous waste.

## Section 14 - Transport Information

**Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG); by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.

## Section 15 - Regulatory Information

**Poisons Schedule** Not Scheduled

## Section 16 - Any Other Relevant Information

**Literature References** Australian Health Ministers' Advisory Council, 'Standard for the Uniform Scheduling of Drugs and Poisons No.16', AGPS, Canberra 2001.  
Lewis, Richard J. Sr.'Hawley's Condensed Chemical Dictionary 12th. Ed.', Rev., Van Nostrand Reinhold, NY, 1993.  
National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.  
South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.  
Standards Australia, 'Dangerous Goods - Initial Emergency Response Guide', 1997.  
Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]', AGPS, Canberra 1999.  
Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AGPS, Canberra 1999.  
Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.  
Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo Department of Finance and Administration, Canberra 1995.

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**Empirical Formula & Structural Formula**

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