

# SAFETY DATA SHEET

Australian statement of hazardous nature : Classified as hazardous according to criteria of Safe Work Australia

### Section 1 - Identification

Product Name	Cesium Chloride
Synonyms	Cesium Monochloride; Dicesium Dichloride
Product Code	ACR18950, ACR19281, ACR20632, ACR42285, AJA957, AJA958, ALF010018, ALF010993, ALF012886, ALF035689, ALF035690, ALF042832, ALF043720, ALF087640, APPA1126, FSBBP1595, FSBBP210, FSBC/0640, FSBC/0680, FSBC/0682, TOKC2203
Address	ThermoFisher Scientific Australia Pty Ltd 5 Caribbean Drive, Scoresby VICTORIA 3179. Australia
Emergency Tel.	CHEMTREC® 03 9757 4559 or +613 9757 4559
Telephone / Fax Numbers	Tel: 1300 735 292 Fax: 1800 067 639
E-mail address	auinfo@thermofisher.com

**Recommended Use** 

Laboratory chemicals.

### Section 2 - Hazard(s) Identification

#### Classification under Safe Work Australia

Classified as hazardous according to criteria of Safe Work Australia

Physical hazards No hazards identified

Health hazards

**Reproductive Toxicity** 

Environmental hazards No hazards identified

Label Elements



Category 2

#### Signal Word

Warning

#### **Hazard Statements**

H361 - Suspected of damaging fertility or the unborn child

#### **Precautionary Statements**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P403 - Store in a well-ventilated place

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other information

No information available

# Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
Cesium chloride	7647-17-8	>95

### Section 4 - First Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
General Advice	If symptoms persist, call a physician.
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
First Aid Facilities	Eyewash, safety shower and washroom.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically.

### Section 5 - Fire Fighting Measures

#### Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

#### Extinguishing media which must not be used for safety reasons No information available.

#### Hazardous Decomposition Products

Hydrogen chloride gas.

#### **Specific Hazards Arising from the Chemical**

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### Section 6 - Accidental Release Measures

#### **Emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. **Environmental Precautions** 

Should not be released into the environment. See Section 12 for additional Ecological Information.

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

### Section 7 - Handling and Storage

### Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

#### Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

### Section 8 - Exposure Controls and Personal Protection

#### **Exposure limits**

The product does not contain any hazardous materials with occupational exposure limits established.

#### Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Exposure Controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

F	Personal protective equip Eye Protection	nent Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye applications)		S 1337 - Eye protectors for Industrial	
	Hand Protection	Protectiv	e gloves		
ſ		Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments

Neoprene	-
PVC	

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection	Long sleeved clothing
Repiratory Protection	Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of repiratory protective devices
Recommended Filter type:	Particulates filter conforming to EN 143 (or AUS/NZ equivalent)
Recommended half mask:-	Particle filtering: EN149:2001 (or AUS/NZ equivalent) When RPE is used a face piece Fit Test should be conducted
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

# Section 9 - Physical and Chemical Properties

#### Information on basic physical and chemical properties

Appearance Physical State	White Powder Solid	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Explosion Limits	Odorless No data available 6.0-7.5 @ 20°C 646 °C / 1194.8 °F No data available 1290 °C / 2354 °F No information available Not applicable No information available No data available	aq.solution @ 760 mmHg <b>Method -</b> No information available Solid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wat Autoignition Temperature Decomposition Temperature	Not applicable No data available	Solid
Viscosity Explosive Properties Oxidizing Properties	Not applicable No information available No information available	Solid
<u>Other information</u> Molecular Formula Molecular Weight	CI Cs 168.36	

### Section 10 - Stability and Reactivity

Reactivity	None known, based on information available	
Stability	Stable under normal conditions. Hygroscopic.	
Conditions to Avoid	Incompatible products, Excess heat, Avoid dust formation, Exposure to moist air or water.	
Incompatible Materials	Strong acids, Acids, Strong oxidizing agents.	
Hazardous Decomposition Products Hydrogen chloride gas.		

Hazardous Polymerization

### Hazardous polymerization does not occur.

### Section 11 - Toxicological Information

#### Information on Toxicological Effects

Product Information

(a) acute toxicity;

Oral

Dermal

Inhalation

Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cesium chloride	2600 mg/kg ( Rat )		
(b) skin corrosion/irritation;	Based on available data, the c	lassification criteria are not me	t
(c) serious eye damage/irritation; (d) respiratory or skin sensitization;	Based on available data, the c	lassification criteria are not me	t
Respiratory	Based on available data, the c	lassification criteria are not met	t
Skin	Based on available data, the c	lassification criteria are not me	t
(e) germ cell mutagenicity;	Based on available data, the c	lassification criteria are not me	t
(f) carcinogenicity;	Based on available data, the c	lassification criteria are not me	t
(g) reproductive toxicity; Reproductive Effects (h) STOT-single exposure;		nic chemicals in this product oductive toxicity effects on labo lassification criteria are not met	-
(i) STOT-repeated exposure;	Based on available data, the c	lassification criteria are not me	t
Target Organs (j) aspiration hazard;	None known. Not applicable Solid		

Symptoms / effects,both acute and No information available delayed

### Section 12 - Ecological Information

#### Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Cesium chloride	>100 mg/L 96h	37.4 mg/L 48h		

**Ozone Depletion Potential** 

Persistence and Degradability Persistence Degradability Bioaccumulative Potential	Soluble in water, Persistence is unlikely, based on information available. Not relevant for inorganic substances. Bioaccumulation is unlikely
Mobility	The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility Highly mobile in soils
Endocrine Disruptor Information Persistent Organic Pollutant	This product does not contain any known or suspected endocrine disruptors This product does not contain any known or suspected substance

This product does not contain any known or suspected substance

# Section 13 - Disposal Considerations

Waste from Residues/Unused Products	Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point.
Other Information	Chemical wastes should be disposed through a licensed commercial waste collection service. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

### Section 14 - Transport Information

IMDG/IMO_	Not regulated
ADG	Not regulated
ΙΑΤΑ	Not regulated
Environmental hazards	No hazards identified
Special Precautions	No special precautions required
Additional information	None known

### Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories X = listed

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
Cesium chloride	X	Х	231-600-	-	Х	Х	-	Х	Х	Х	KE-0543
			2								3
Standard for the Uniform		S7 - Pois	son								

Standard for the Uniform Scheduling of Medicines and

Poisons

Prohibition or notification/licensingShown below are details of specific prohibition/notifications or licencing requirements when<br/>they apply.

# Section 16 - Other Information

Legend

### SAFETY DATA SHEET

AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals TSCA - United States Toxic Substances Control Act Section 8(b) **EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Inventory Substances/EU List of Notified Chemical Substances DSL/NDSL - Canadian Domestic Substances List/Non-Domestic ENCS - Japanese Existing and New Chemical Substances Substances List IECSC - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances CAS - Chemical Abstracts Service ACGIH - American Conference of Governmental Industrial Hygienists TWA - Time Weighted Average IARC - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC) ICAO/IATA - International Civil Aviation Organization/International Air IMO/IMDG - International Maritime Organization/International Maritime Transport Association Dangerous Goods Code MARPOL - International Convention for the Prevention of Pollution from ADG Australian Code for the Transport of Dangerous Goods by Road Ships and Rail OECD - Organisation for Economic Co-operation and Development NZS 5433:2012 - Transport of Dangerous Goods on Land LD50 - Lethal Dose 50% LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50% ATE - Acute Toxicity Estimate RPE - Respiratory Protective Equipment WEL - Workplace Exposure Limit DNEL - Derived No Effect Level NOEC - No Observed Effect Concentration POW - Partition coefficient Octanol:Water BCF - Bioconcentration factor vPvB - very Persistent, very Bioaccumulative PBT - Persistent, Bioaccumulative, Toxic VOC (volatile organic compound)

### Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

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Revision Summary	Not applicable.

### This safety data sheet complies with the requirements of Safe Work Australia WHS Regulation

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

### **End of Safety Data Sheet**