

According to SANS 10234:2019 and SANS 11014:2010 Issue date:03/07/2020 Revision date: 03/07/2025

Version: 1.0

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SECTION 1: Identification			
1.1. Product identifier			
Trade name	: CESIUM CHLORIDE		
Type of product	: Hygroscopic substance. Preventive measures apply to the substance in dry state only		
EC-No.	: 231-600-2		
CAS-No.	: 7647-17-8		
Product code	103065xxx		
Formula	: CsCl		
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against		
Recommended uses and restrictions	: For laboratory use only		
1.3. Supplier's details			
Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za			
1.4. Emergency telephone number			
Emergency number	: +27 11 452 1116		
SECTION 2: Hazards identification			
2.1. Classification of the substance or n	nixture		
Classification according to the United Nation	IS GHS		
Acute toxicity (oral), Category 5 H3	303		
	361		
	402		
2.2. Label elements			
Labelling according to the United Nations G	19		
Hazard pictograms (GHS-ZA)	HS08		
Signal word (GHS-ZA)	: Warning		
Hazard statements (GHS-ZA)	 H303 - May be harmful if swallowed H361 - Suspected of damaging fertility or the unborn child. H402 - Harmful to aquatic life 		
Precautionary statements (GHS-ZA)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 - IF exposed or concerned: Get medical advice/attention. P312 - Call a POISON CENTER or doctor if you feel unwell. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 		
2.3. Other hazards			
Adverse physicochemical, human health and environmental effects	: Suspected of damaging fertility or the unborn child,Harmful if swallowed,Harmful to aquatic life		
SECTION 3: Composition/informatic	on on ingredients		

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3.1. **Substances**

Substance identification codes: See section 1.1

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Name	Product identifier	%	Classification according to the United Nations GHS
cesium chloride (Main constituent)	(CAS-No.) 7647-17-8	≥ 99.9	Acute Tox. 5 (Oral), H303 Repr. 2, H361 Aquatic Acute 3, H402
Full text of H-statements: see section 16		I	
3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	Check the vital functions. Unconscious: n arrest: artificial respiration or oxygen. Ca with laboured breathing: half-seated. Vic Vomiting: prevent asphyxia/aspiration pr warming up). Keep watching the victim. (physical strain. Depending on the victim' Get medical advice/attention. Call a pois	rdiac arrest: perfor tim in shock: on his neumonia. Prevent Give psychological s condition: doctor	m resuscitation. Victim conscious s back with legs slightly raised. cooling by covering the victim (no aid. Keep the victim calm, avoid /hospital. IF exposed or concerned:
First-aid measures after inhalation	Remove person to fresh air and keep co air. Respiratory problems: consult a doct		
First-aid measures after skin contact	Rinse with water. Soap may be used. Do to a doctor if irritation persists. Wash skir		
First-aid measures after eye contact	 Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution. 		
First-aid measures after ingestion	Rinse mouth with water. Do not induce v (www.big.be/antigif.html). Consult a doct quantities: immediately to hospital. Rinse unwell.	or/medical service	if you feel unwell. Ingestion of large
I.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/effects after inhalation	No effects known.		
symptoms/effects after skin contact	Not irritating.		
symptoms/effects after eye contact	ON CONTINUOUS EXPOSURE/CONTA	CT: Irritation of the	e eye tissue.
Symptoms/effects after ingestion	No effects known.		
Chronic symptoms	male fertility impairment: testes, epididyr	nides, spermatoge	nesis.
Potential adverse human health effects and symptoms	Practically non-toxic if swallowed (LD50 skin. Not irritant to skin. Not irritant to skin.		/kg). Slightly harmful in contact wit
	ttention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	Adapt extinguishing media to the enviror Foam.	ment for surround	ing fires. Water spray. Dry powder.
5.2. Special hazards arising from the subs	tance or mixture		
ire hazard	DIRECT FIRE HAZARD: Non combustib	le.	
lazardous decomposition products in case of re	: On heating/burning: release of toxic and	corrosive gases/va	apours (chlorine, hydrogen chloride
5.3. Advice for firefighters			
Precautionary measures fire	Exposure to fire/heat: keep upwind. Expo fire/heat: have neighbourhood close doo		consider evacuation. Exposure to
irefighting instructions	Dilute toxic gases with water spray. Take	e account of toxic/c	orrosive precipitation water.
Protection during firefighting	 Heat/fire exposure: compressed air/oxyg suitable protective equipment. Self-conta clothing. 		
SECTION 6: Accidental release measu	ires		
6.1. Personal precautions, protective equi	pment and emergency procedures		
No additional information available			
6.1.1. For non-emergency personnel			
Protective equipment	Gloves. Protective clothing. Dust cloud p		
Emergency procedures	: Ventilate spillage area. Mark the danger Wash contaminated clothes.	area. Prevent dust	t cloud formation. No naked flames

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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Preve	nt spreading in sewers.
6.3. Methods and material for co	ntainment and cleaning up
For containment	 Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dan up the solid spill. Knock down/dilute dust cloud with water spray. Collect spillage.
Methods for cleaning up	: Mechanically recover the product. Prevent dust cloud formation. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handlin	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep containe tightly closed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.
Hygiene measures	: Observe strict hygiene. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
Storage area	: Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.
Special rules on packaging	 SPECIAL REQUIREMENTS: closing. watertight. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: glass. synthetic material.
SECTION 8: Exposure control	s/personal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering co	ntrols
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measu	res, such as personal protective equipment (PPE)

Materials for protective clothing	: GIVE GOOD RESISTANCE: neoprene
Hand protection	: Gloves
Eye protection	: Safety glasses. In case of dust production: protective goggles. Safety glasses
Skin and body protection	: Protective clothing
Respiratory protection	: Dust production: dust mask with filter type P2. [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components No additional information available

SECTION 9: Physical and chemical properties		
9.1. Information on bas	ic physical and chemical properties	
Physical state	: Solid	
Appearance	: Crystalline solid. Crystalline powder.	
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Molecular mass	: 168.36 g/mol
Colour	: Colourless or white.
Odour	: Odourless.
Odour threshold	: No data available
рН	: 6 – 7.5 (50 %)
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: 642 °C (1013.25 hPa, OECD 102: Melting Point/Melting Range)
Freezing point	: Not applicable
Boiling point	: 1290 °C
Flash point	: Not applicable
Auto-ignition temperature	: > 400 °C (EU Method A.16: Relative Self-Ignition Temperature for Solids)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: Not applicable
Relative density	: 3.97 (20 °C, EU Method A.3: Relative Density)
Relative density of saturated gas/air mixture	: No data available
Density	: 3970 kg/m³
Relative gas density	: No data available
Solubility	: Soluble in water. Soluble in ethanol. Soluble in methanol. Water: > 100 g/100ml (20 °C, OECD 105: Water Solubility)
Partition coefficient n-octanol/water (Log Pow)	: 0.54 (Calculated, KOWWIN)
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
9.2. Other information	
VOC content	: 0%
Other properties	: Hygroscopic.
SECTION 10: Stability and reactivity	

10.1. Reactivity The product is non-reactive under normal conditions of use, storage and transport. 10.2. **Chemical stability** Hygroscopic. 10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use. 10.4. **Conditions to avoid** None under recommended storage and handling conditions (see section 7). 10.5. Incompatible materials No additional information available Hazardous decomposition products 10.6. Under normal conditions of storage and use, hazardous decomposition products should not be produced. **SECTION 11: Toxicological information** Information on toxicological effects 11.1.

Acute toxicity (oral)	: May be harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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CESIUM CHLORIDE (7647-17-8)			
LD50 oral rat	2600 mg/kg (Rat, Experimental value, Oral)		
LD50 dermal rat	> 1727.5 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))		
Skin corrosion/irritation	Not classified pH: 6 – 7.5 (50 %)		
Serious eye damage/irritation	Not classified		
Poppiratory or alvin constituation	pH: 6 – 7.5 (50 %)		
Respiratory or skin sensitisation Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified Not classified		
Reproductive toxicity	: Suspected of damaging fertility or the unborn child. : Not classified		
STOT-single exposure			
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Potential adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg). Slightly harmful in contact wit skin. Not irritant to skin. Not irritant to eyes.		
SECTION 12: Ecological information			
2.1. Toxicity			
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) N 1272/2008. Harmful to aquatic life.		
Ecology - air	Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).		
Ecology - water	Harmful to crustacea. Slightly harmful to fishes. In appropriate low concentrations inhibition of the degradation of activated sludge is not anticipated. Slightly harmful to algae.		
lazardous to the aquatic environment, short- erm (acute)	: Harmful to aquatic life.		
lazardous to the aquatic environment, long- erm (chronic)	: Not classified		
1 5	: Not classified		
erm (chronic)	 Not classified > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP) 		
erm (chronic) CESIUM CHLORIDE (7647-17-8)	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh		
erm (chronic) CESIUM CHLORIDE (7647-17-8) LC50 fish 1	 > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP) 37.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static 		
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erm (chronic) CESIUM CHLORIDE (7647-17-8) LC50 fish 1 EC50 Daphnia 1 EC50 72h algae (1)	 > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP) 37.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) 134.3 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP) 		
erm (chronic) CESIUM CHLORIDE (7647-17-8) LC50 fish 1 EC50 Daphnia 1 EC50 72h algae (1) Partition coefficient n-octanol/water (Log Pow)	 > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP) 37.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) 134.3 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP) 		
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Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse.	
Additional information	 Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. 	

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ	
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environmen	t : No Dangerous for the environment : No	
	No supplementary informa	tion available	
14.6. Special precautions for user			
- SANS			
Transport regulations (UN)	: Not subject		
- IMDG			
Transport regulations (IMDG)	: Not subject		
	5		
- IATA			
Transport regulations (IATA)	: Not subject		
14.7. Transport in bulk according to	Annex II of MARPOL 73/78 and the	IBC Code	
Not applicable			
SECTION 15: Regulatory inform	ation		
	Ital national regulations specific for	the product	
Regulatory reference		1014:2010; SANS 10228:2012;SANS 10229:2010; SANS 2018; Occupational Health and Safety Act 85 of 1993; National	
SECTION 16: Other information			
Issue date	: 03/07/2020		
Revision date	: 03/07/2025		
Full text of H-statements:			
H303	May	be harmful if swallowed	
H361		ected of damaging fertility or the unborn child.	
H402	Harn	Harmful to aquatic life	

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.