

**Cesium chloride****90033-100G**

Version 1.2

Issuing date 12/18/2016

Revision Date 10/02/2017

Print Date 08/06/2019

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : Cesium chloride

Number : 000000020256

Recommended use of the chemical and restrictions on use : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
Seelze, 30926

For further information, please contact: : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call :** **Medical: 1-800-498-5701 or +1-303-389-1414**  
**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
**In Japan: +(81)-345209637**  
: (24 hours/day, 7 days/week)

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Classification of the substance or mixture : Reproductive toxicity, Category 2

**GHS Label elements, including precautionary statements**

Symbol(s) :



Signal word : Warning

Hazard statements : Suspected of damaging fertility or the unborn child.

Precautionary statements : **Prevention:**  
Obtain special instructions before use.

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

Use personal protective equipment as required.

**Response:**

IF exposed or concerned: Get medical advice/ attention.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not  
result in classification

: Repeated or prolonged exposure may irritate eyes, skin and  
respiratory system.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : CsCl

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Cesium chloride	7647-17-8	100.00 %
Cesium chloride		

Note: none

**4. FIRST AID MEASURES**

General advice : First aider needs to protect himself.  
Move out of dangerous area.

Inhalation : If inhaled, remove to fresh air.  
Call a physician if irritation develops or persists.

Skin contact : After contact with skin, wash immediately with plenty of water.  
Call a physician if irritation develops or persists.

Eye contact : In the case of contact with eyes, rinse immediately with plenty  
of water and seek medical advice.

Ingestion : Rinse mouth with water.  
Call a physician immediately.

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**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Specific hazards during firefighting : Fire may cause evolution of:  
Chlorine compounds
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Avoid dust formation.
- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE****Handling**

- Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**Storage**

- Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Appropriate engineering controls**

Use with local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

Respiratory protection	: In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	: Latex gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Tightly fitting safety goggles
Skin and body protection	: Protective suit
Hygiene measures	: Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Do not breathe dust.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: powder
Colour	: colourless
Odour	: odourless
pH	: ca. 9.0 at , 20 °C
Melting point/range	: 642 °C Method: OECD Test Guideline 102

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Boiling point/boiling range	: Note: no data available
Flash point	: Note: Not applicable
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapour pressure	: Note: no data available
Density	: ca. 3.98 g/cm <sup>3</sup> at 20 °C
Water solubility	: 1,000 g/l at 20 °C
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: Not applicable
Decomposition temperature	: Note: No decomposition if used as directed.
Molecular weight	: 168.36 g/mol
Bulk density	: ca. 1,600 kg/m <sup>3</sup>

**10. STABILITY AND REACTIVITY**

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous	: Hazardous polymerization does not occur.

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## reactions

Conditions to avoid : Protect from moisture.

Incompatible materials to avoid : Strong oxidizing agents  
Strong acidsHazardous decomposition products : Fire may cause evolution of:  
Chlorine compounds**11. TOXICOLOGICAL INFORMATION**Acute oral toxicity : LD50: 2,600 mg/kg  
Species: Rat

Acute inhalation toxicity : Note: no data available

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 402  
Test substance: REACH dossier "read-across"Skin irritation : Result: No skin irritation  
Method: OECD Test Guideline 439Eye irritation : Species: Chicken eye  
Result: slight irritation  
Method: OECD Test Guideline 438Sensitisation : Species: Mouse  
Result: non-sensitizing  
Test substance: REACH dossier "read-across"  
Method: OECD Test Guideline 429Genotoxicity in vitro : Cell type: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 471Genotoxicity in vivo : Test Method: Micronucleus test  
Species: Mouse, male and female  
Application Route: Intraperitoneal injection

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Method: OECD Test Guideline 474

Result: negative

Teratogenicity

: Species: Rat

Method: OECD Test Guideline 414

Note: Conclusive and supporting classification (Ref: REACH  
Dossier - ECHA disseminated data)**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish

: static test

LC50: &gt; 100 mg/l

Exposure time: 96 h

Species: Danio rerio (zebra fish)

Test substance: REACH dossier "read-across"

Method: OECD Test Guideline 203

Toxicity to daphnia and other  
aquatic invertebrates

: static test

EC50: 37.4 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Method: OECD Test Guideline 202

Toxicity to algae

: Growth rate

EC50: &gt; 100 mg/l

Exposure time: 72 h

Species: scenedesmus subspicatus

Test substance: REACH dossier "read-across"

Method: OECD Test Guideline 201

**Persistence and degradability**

Biodegradability

: Note: The methods for determining biodegradability are not  
applicable to inorganic substances.**Ecotoxicology Assessment**

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Results of PBT assessment  
Not applicable

**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

**14. TRANSPORT INFORMATION****ADR**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**RID**

Not dangerous goods

**15. REGULATORY INFORMATION****National regulatory information**

Fire Service Law : Not relevant

Poisonous and Deleterious  
Substances Control Law : Not relevant

**Other international regulations****Notification status**

US. Toxic Substances  
Control Act : On TSCA Inventory

Australia. Industrial Chemical  
(Notification and  
Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian  
Environmental Protection Act : All components of this product are on the Canadian DSL



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(CEPA). Domestic  
Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals  
Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic  
Substances and Hazardous  
and Nuclear Waste Control  
Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing  
Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of  
Chemicals (NZIoC), as  
published by ERMA New  
Zealand : On the inventory, or in compliance with the inventory

**16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 1*	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

**Further information**

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 05/26/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group