

Safety Data Sheet

File version: 1

Cesium chloride, 1M

SDS Date: 28 Nov 2016

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 1M Cesium chloride
SYNONYMS: Caesium chloride
PRODUCT CODES: 1008169
1008170
MANUFACTURER: Rigaku Reagents
ADDRESS: 9009 New Trails Drive
The Woodlands, TX 77381
USA
PHONE: +1 (281) 362-2300
EMAIL: ReagentOrders@Rigaku.com

CHEMICAL NAME: Cesium chloride
CHEMICAL FORMULA: CsCl

PREPARED BY: Rigaku Reagents

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

OSHA HAZARDS: Target organ effect

TARGET ORGANS: Nerves, heart

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Signal word: Warning

Hazard statement(s):

H303 May be harmful if swallowed

Precautionary statement(s):

none

POTENTIAL HEALTH EFFECTS:

EYES: May cause eye irritation.

SKIN: May be harmful if absorbed through skin. May cause skin irritation.

INGESTION: May be harmful if swallowed.

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Cesium chloride De-ionized water

CESIUM CHLORIDE:

CAS NO.
7647-17-8

% WT
16.836

% VOL

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

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EYES: Flush eyes with water as a precaution.

SKIN: Wash off with soap and plenty of water.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT:**F:** No data available**C:** No data available**AUTOIGNITION TEMPERATURE:****F:** No data available**C:** No data available**NFPA HAZARD CLASSIFICATION****HEALTH: 0****FLAMMABILITY: 0****REACTIVITY: 0****HMIS HAZARD CLASSIFICATION****HEALTH: 1****FLAMMABILITY: 0****REACTIVITY: 0**

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing vapors, mist or gas.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Soak up with inert absorbent material and dispose of as appropriate. Keep in suitable, closed containers for disposal.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic: Keep in a dry place.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

EYE PROTECTION: Safety glasses.

SKIN PROTECTION: For prolonged or repeated contact use protective gloves.

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WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear, colorless**PHYSICAL STATE:** liquid, clear**pH AS SUPPLIED:** No data available**pH (Other):** 6.0-7.5**BOILING POINT:****F:** No data available**C:** No data available**FREEZING POINT:****F:** No data available**C:** No data available**VAPOR PRESSURE (mmHg):** No data available

@

F: No data available**C:** No data available**VAPOR DENSITY (AIR = 1):** No data available**SPECIFIC GRAVITY (H₂O = 1):** No data available

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F: No data available**C:** No data available**EVAPORATION RATE:** No data available**SOLUBILITY IN WATER:** Soluble**VISCOSITY:** No data available

@

F: No data available**C:** No data available**SECTION 9 NOTES:**

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.**CONDITIONS TO AVOID (STABILITY):** Avoid moisture.**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents, strong acids**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Cesium/cesium oxides**SECTION 10 NOTES:**

SECTION 11: TOXICOLOGICAL INFORMATION

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ACUTE TOXICITY:

ORAL LD50: Rat - 2,600 mg/kg
INHALATION LC50: No data available
DERMAL LD50: No data available

SKIN CORROSION/IRRITATION: No data available**SERIOUS EYE DAMAGE/EYE IRRITATION:** No data available**RESPIRATORY OR SKIN SENSITIZATION:** No data available**GERM CELL MUTAGENICITY:** Genotoxicity in vivo - mouse – Oral: Cytogenetic analysis**CARCINOGENICITY:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY:

RAT – ORAL:
Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Biochemical and metabolic.
Effects on Newborn: Physical.

SECTION 11 NOTES:**SECTION 12: ECOLOGICAL INFORMATION****TOXICITY:****TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:** LC50 - Daphnia - 7.4 mg/l - 48 h**PERSISTENCE AND DEGRADABILITY**

No data available

BIOACCUMULATIVE POTENTIAL

No data available

MOBILITY IN SOIL

No data available

PBT AND vPvB ASSESSMENT

No data available

SECTION 12 NOTES: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.**SECTION 13: DISPOSAL CONSIDERATIONS****PRODUCT:** Observe all federal, state, and local environmental regulations.**CONTAMINATED PACKAGING:** Dispose of as unused product.**SECTION 14: TRANSPORT INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION**

Not dangerous goods

WATER TRANSPORTATION

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Not dangerous goods

AIR TRANSPORTATION

Not dangerous goods

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

OSHA HAZARDS: Target organ effect**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313 COMPONENTS:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**SARA 311/312 HAZARDS:** Chronic health hazard**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:**

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS:

	<u>CAS-No.</u>
Cesium chloride	7647-17-8
Water	7732-18-5

NEW JERSEY RIGHT TO KNOW COMPONENTS:

	<u>CAS-No.</u>
Cesium chloride	7647-17-8
Water	7732-18-5

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**SECTION 15 NOTES:**

SECTION 16: OTHER INFORMATION

DISCLAIMER: The above information is believed to be correct but does not necessarily include all information and should be used only as a guide. The information in this document is based on our current knowledge and applies to the product with regard to appropriate safety precautions. This document does not represent any guarantee of the properties of the product. Rigaku Reagents will not be held liable for any damage resulting from handling or contact with the above product.