

Cesium Zirconate		Pricing >
Linear Formula	Cs ₂ ZrO ₃	
Pubchem CID	N/A	
MDL Number	N/A	
EC No.	235-284-7	
IUPAC Name	N/A	
Beilstein/Reaxys No.	N/A	
SMILES	[Cs+].[Cs+].O=[Zn]([O-])[O-]	
Inchl Identifier	InChI=1/2Cs.3O.Zn/q2*+1;;2*-1;/r2Cs.O3Zn/c;;1-4(2)3/q2*+1;-2	
Inchl Key	GYRQLQPCIDZKPW-UHFFFAOYSA-N	
Signal Word	N/A	
Hazard Statements	N/A	
Hazard Codes	N/A	
Risk Codes	N/A	
Safety Statements	N/A	
Transport Information	N/A	

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SAFETY DATA SHEET

Date Accessed: 04/30/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #12158-58-6

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Statements of Hazard: Irritant

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

Chronic Health Hazard: Not Available

HMIS Rating:

H:0 F:0 P:0

NFPA Rating:

H:0 F:0 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Pictogram:



Signal Word:

Warning

Hazard Statement(s):

H302

Harmful if swallowed.

H312

Harmful in contact with skin.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H335

May cause respiratory irritation.

Precautionary Statement(s):

P261

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312

IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell.

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

P304+P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313

If skin irritation occurs: Get medical advice/ attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:

Cesium zirconate

Synonyms:

Not Available

CAS Number:

12158-58-6

SECTION 4. FIRST AID MEASURES

Eye Contact:

Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact:

Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion:

Do not induce vomiting. Seek medical attention.

Inhalation:

Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5. FIREFIGHTING MEASURES

Flash Point:

Not Available

Explosion Limits:

Lower: Not Available

Upper: Not Available

Autoignition:

Not Available

Extinguishing Media:

Carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

Protective Equipment:

Wear self-contained respirator and fully protective impervious suit.

Specific Hazards:

May emit hazardous fumes under fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use.

Keep unprotected persons away.

Environmental Protection:

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

Handling:

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage:

Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities:

Not Available

Storage Temperature:

15 – 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:

Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.

Skin:

Wear impervious gloves and protective clothing.

Respiratory:

Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Not Available

Odor:
Not Available
Melting Point:
Not Available
Boiling Point:
Not Available
pH Value:
Not Available
Density:
Not Available
Refractive Index, n_{20D}:
Not Available
Viscosity:
Not Available
Solubility in Water:
Not Available
Vapor Pressure:
Not Available
Vapor Density(Air=1):
Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability:
Stable under normal temperatures and pressures.
Incompatibility:
Strong oxidizing agents.
Conditions to Avoid:
Heat, Flame, Sparks, other ignition sources
Hazardous Decomposition Products: Cesium oxides,
Zirconium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference:
Not Available
Target Organs:
Not Available
Toxicity Data:
Not Available
Skin corrosion/irritation:
Not Available
Serious eye damage/irritation:
Not Available
Carcinogenicity:
Not Available

SECTION 12. ECOLOGICAL INFORMATION

Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT: Not Regulated
IATA: Not Regulated
IMDG: Not Regulated

SECTION 15. REGULATORY INFORMATION

United States:
Toxic Substance Control Act (TSCA): Listed
Superfund Amendments and Reauthorization Act (SARA 302): Not listed
Superfund Amendments and Reauthorization Act (SARA 311/312): Not listed
Superfund Amendments and Reauthorization Act (SARA 313): Not listed
European Union:
European Inventory of Existing Chemical Substances (EINECS): No.235-284-7
Hazard Codes: Not Available
Risk Statements: Not Available
Safety Statements: Not Available
Canada
Canadian Domestic Substances List (DSL): Not listed
Canadian Non-Domestic Substances List (NDSL): Listed

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.

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