

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Cesium Carbonate

1. Product and Company Identification

Trade Name: Cesium carbonate

Chemical Formula: Cs₂CO₃

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: **XIAN SHAANXI** State: 710077 Zip Code: **CHINA** Country:

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word:

Warning



Hazard Statements: H315 Causes skin irritation.

H319 Causes serious eye irritation. H335: May cause respiratory irritation

Precautionary Statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 1 Physical:

	3. Composition
Chemical Family:	Ceramic
Additional Names:	Cesium carbon oxide
Cesium carbonate (Cs ₂ CO ₃):	
Percentage:	100 wt%
CAS #:	534-17-8
EC #:	208-591-9
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek Medical Attention.
Skin:	Wash affected area with mild soap and water. Remove any
Exper	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove
Eyes:	contact lenses if present and easy to do. Continue rinsing
	contact tenses if present and easy to do. Continue mising
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (TELTA) all Titler and place in a closed container for disposar.
Environmental December	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
	inert gas. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below
v Charlation.	threshold limit.
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8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a

backup to engineering controls. Risk assessment should be performed

to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules

Odor: **Odorless** Water Solubility: 2615 g/l **Boiling Point:** N/A **Melting Point:** 610 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4.072 g/cc Molecular weight: 325.82 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Oxidizing agents

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Cesium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage
Skin: Causes skin irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 2333 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation D

Hazardous: Not hazardous for transportation.

Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Proper Shipping Name: N/A

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 07/08/2019