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|----------------------------------|--|------------------------------|
| <a href="#">Cesium Carborane</a> |  | <a href="#">Pricing &gt;</a> |
| Signal Word                      | Warning  |                              |
| Hazard Statements                | H315+H320-H335   |                              |
| Hazard Codes                     | Xi   |                              |
| Precautionary Statements         | P262-P280-P305+P351+P338-P304+P340-P403+P233-P403+P501   |                              |
| Risk Codes                       | N/A  |                              |
| Safety Statements                | S24/25   |                              |
| Transport Information            | NONH for all modes of transport  |                              |
| WGK Germany                      | 3  |                              |
| GHS Pictograms                   | <a href="#">GHS07 Exclamation Point</a><br> |                              |

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## SAFETY DATA SHEET

Date Accessed: 05/08/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #12539-26-3

**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

Classification of the substance or mixture  
Skin Irrit. 2 H315 Causes skin irritation.  
STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

Label elements

GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).



Signal word Warning

Hazard statements

H315+H320 Causes skin and eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

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 rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 2

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2

Fire = 0

Reactivity = 0

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances

CAS No. Description

12539-26-3 Cesium carborane

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### SECTION 4. FIRST AID MEASURES

Description of first aid measures

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and

soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture  
No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

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## **SECTION 7. HANDLING AND STORAGE**

Handling:

Precautions for safe handling No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and

receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace: Not required.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.

Protection of hands:

Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance:

Form: Powder

Color: White

Odor: Odorless

Odor threshold: Not determined.  
pH-value: Not applicable.  
Change in condition  
Melting point/Melting range: Undetermined.  
Boiling point/Boiling range: Undetermined.  
Flash point: Not applicable.  
Flammability (solid, gaseous): Not determined.  
Ignition temperature:  
Decomposition temperature: Not determined.  
Auto igniting: Not determined.  
Danger of explosion: Product does not present an explosion hazard.  
Explosion limits:  
Lower: Not determined.  
Upper: Not determined.  
Vapor pressure: Not applicable.  
Density: Not determined.  
Relative density Not determined.  
Vapor density Not applicable.  
Evaporation rate Not applicable.  
Solubility in / Miscibility with  
Water: Insoluble.  
Partition coefficient (n-octanol/water): Not determined.  
Viscosity:  
Dynamic: Not applicable.  
Kinematic: Not applicable.  
Solvent content:  
Organic solvents: 0.0 %  
VOC content: 0.0 g/l / 0.00 lb/gl  
Solids content: 100.0 %  
Other information No further relevant information available

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity No further relevant information available.  
Chemical stability  
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.  
Possibility of hazardous reactions No dangerous reactions known.  
Conditions to avoid No further relevant information available.  
Incompatible materials: No further relevant information available.  
Hazardous decomposition products: No dangerous decomposition products known.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects  
Acute toxicity:  
Primary irritant effect:  
on the skin: Irritant to skin and mucous membranes.  
on the eye: Irritating effect.  
Sensitization: No sensitizing effects known.  
Additional toxicological information:  
Carcinogenic categories  
IARC (International Agency for Research on Cancer)  
Substance is not listed.  
NTP (National Toxicology Program)  
Substance is not listed.  
OSHA-Ca (Occupational Safety & Health  
Administration)  
Substance is not listed

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity  
Aquatic toxicity: No further relevant information  
available.  
Persistence and degradability No further relevant  
information available.  
Behavior in environmental systems:  
Bioaccumulative potential No further relevant  
information available.  
Mobility in soil No further relevant information  
available.  
Additional ecological information:  
General notes:  
Water hazard class 1 (Self-assessment): slightly  
hazardous for water  
Do not allow undiluted product or large quantities of it  
to reach ground water, water course or sewage  
system.  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.  
Other adverse effects No further relevant information  
available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Recommendation:  
Must not be disposed of together with household  
garbage. Do not allow product to reach sewage  
system.  
Uncleaned packagings:  
Recommendation: Disposal must be made according

to official regulations

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## **SECTION 14. TRANSPORT INFORMATION**

UN-Number  
DOT, ADN, IMDG, IATA not regulated  
UN proper shipping name  
DOT, ADN, IMDG, IATA not regulated  
Transport hazard class(es)  
DOT, ADN, IMDG, IATA  
Class not regulated  
Packing group  
DOT, IMDG, IATA not regulated  
Environmental hazards:  
Marine pollutant: No  
Special precautions for user Not applicable.  
Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code Not applicable.  
· UN "Model Regulation": not regulated

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## **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental  
regulations/legislation specific for the substance or  
mixture  
Sara  
Section 355 (extremely hazardous substances):  
Substance is not listed.  
Section 313 (Specific toxic chemical listings):  
Substance is not listed.  
TSCA (Toxic Substances Control Act):  
Substance is not listed.  
Proposition 65  
Chemicals known to cause cancer:  
Substance is not listed.  
Chemicals known to cause reproductive toxicity for  
females:  
Substance is not listed.  
Chemicals known to cause reproductive toxicity for  
males:  
Substance is not listed.  
Chemicals known to cause developmental toxicity:  
Substance is not listed.  
Carcinogenic categories  
EPA (Environmental Protection Agency)  
Substance is not listed.  
TLV (Threshold Limit Value established by ACGIH)  
Substance is not listed.  
NIOSH-Ca (National Institute for Occupational Safety  
and Health)

Substance is not listed

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## **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. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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