

[Beryllium Aluminosilicate](#)

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Linear Formula	Be ₃ Al ₂ (SiO ₃) ₆
Pubchem CID	14767
MDL Number	MFC00049838
EC No.	215-101-7
IUPAC Name	dialuminum; triberyllium; dioxido(oxo)silane
SMILES	[Be+2].[Be+2].[Be+2].[O-][Si]([O-])[O-].[O-][Si]([O-])[O-].[O-][Si]([O-])[O-].[O-][Si]([O-])[O-].[O-][Si]([O-])[O-].[O-][Si]([O-])[O-].[Al+3].[Al+3]
Inchi Identifier	InChI=1S/2Al.3Be.6O3Si/c;;;;6*1-4(2)3/q2*+3;3*+2;6*-2
Inchi Key	NJJFVOQXYCEZLO-UHFFFAOYSA-N

Signal Word	Warning
Hazard Statements	H311-H315-H320-H331-H335
Hazard Codes	N/A
Risk Codes	N/A
Safety Statements	N/A
Transport Information	UN1566 6.1/PG III

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SAFETY DATA SHEET

Date Accessed: 04/17/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #1302-52-9

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

Statement of Hazard: Irritant, Respiratory irritant,
Toxic

Acute Health Hazard: Irritant to eyes, skin, mucous
membranes and respiratory system.

May be toxic by ingestion, skin absorption and
inhalation.

Chronic Health Hazard: Not Available

HMIS Rating:

H: 3

F: 0

P: 0

NFPA Rating:

H: 3

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): H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H320 Causes eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement(s): P261 Avoid breathing
dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this
product.

P271 Use only outdoors or in a well-ventilated area.

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

P301+P310 IF SWALLOWED: Immediately call a
POISON CENTER or
doctor/physician.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Beryllium aluminum silicate
Synonyms: Beryl
CAS Number: 1302-52-9
MDL Number: MFCD00049838
EINECS Number: 215-101-7
Beilstein Registry Number: Not Available
Molecular Formula: $\text{Be}_3\text{Al}_2(\text{SiO}_3)_6$
Molecular Weight: 537.50
Content: As specified in product name.

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 (°C): Not Available
Explosion Limits: Not Available
Autoignition (°C): 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. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed.

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 and Storage: 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.

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

Sensitivities: Not Available

Storage Temperature (°C): 15 to 30

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity.

Skin Protection: Wear impervious gloves and protective clothing.

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

Exposure Limits:

Country Source Type Value

USA ACGIH TWA Not Available

USA OSHA STEL Not Available

USA OSHA PEL Not Available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystals
Odor: Not Available
Odor Threshold: Not Available
Flash Point (°C): Not Available
Auto Ignition
Temperature (°C): Not Available
UEL % by Volume: Not Available
LEL % by Volume: Not Available
Melting Point (°C): 1410
Boiling Point (°C): Not Available
Evaporation Rate: Not Available
pH Value: Not Available

Density (g/cm³): 2.66
Refractive Index (n²⁰D): Not Available
Viscosity: Not Available
Solubility in Water: Not Available
Solubility in Other: Not Available
Vapor Pressure (mmHg): Not Available
Vapor Density (Air=1): Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.
Incompatibility: Strong oxidizing agents, alkali metals
Reactivity: Product may react with incompatible materials to release other hazardous substances.
Conditions to Avoid: Heat, flame, sparks, other ignition sources.
Hazardous Decomposition Products: Aluminum oxides, Beryllium oxides, Silicon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available
Target Organs: Not Available
Toxicity Data: Not Available
Carcinogenicity: National Toxicology Program (NTP) listed: Not Available
International Agency for Research on Cancer (IARC) listed: Not Available
Potential Symptoms: Not Available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity: 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 Shipping Name: Beryllium Compound, N.O.S.
DOT UN Number: UN1566
DOT Hazard Class: Class 6.1
DOT Packing Group: III
IMDG Shipping Name: Beryllium Compound, N.O.S.
IMDG UN Number: UN1566
IMDG Hazard Class: Class 6.1
IMDG Packing Group: III
Marine Pollutant: No
IATA: Not permitted for air transport

SECTION 15. REGULATORY INFORMATION

United States
Toxic Substance Control Act (TSCA) listed: Yes
Superfund Amendments and Reauthorization Act (SARA 302) listed: No
Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No
Superfund Amendments and Reauthorization Act (SARA 313) listed: Not Available
European Union
European Inventory of Existing Chemical Substances (EINECS): 215-101-7
Canada
Canadian Non-Domestic Substances List (NDSL) listed: Yes
Toxic Substance Control Act (TSCA) listed: Yes
Superfund Amendments and Reauthorization Act (SARA 302) listed: No
Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No
Canadian Domestic Substances List (DSL) listed: No

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.
