SECTION 1. IDENTIFICATION

Product Identifier: (4N) 99.99% Beryllium Acetylacetonate

Product Code: BE-ACAC-04

CAS Number: 10210-64-7

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:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Acute toxicity - Oral, Category 3
Skin irritation, Category 2
Skin sensitization, Category 1
Eye irritation, Category 2
Acute toxicity - Inhalation, Category 2
Specific target organ toxicity – single exposure, Category 3
Carcinogenicity, Category 1B
Specific target organ toxicity – repeated exposure, Category 1
Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 2

Signal word
Danger
Hazard statement(s)
H301 Toxic if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H330 Fatal if inhaled
H335 May cause respiratory irritation
H350 May cause cancer
H372 Causes damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

Prevention
P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P284 [In case of inadequate ventilation] wear respiratory protection.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.

Response
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P321 Specific treatment (see ... on this label).
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor/...
P320 Specific treatment is urgent (see ... on this label).
P312 Call a POISON CENTER/doctor/...if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.

Storage
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal
P501 Dispose of contents/container to...

Other hazards which do not result in classification
none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Chemical name: Beryllium acetylacetonate
Common names and synonyms: Beryllium acetylacetonate
CAS number: 10210-64-7
EC number: none
Concentration: 100%
SECTION 4. FIRST AID MEASURES

Description of necessary first-aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms/effects, acute and delayed
no data available
Indication of immediate medical attention and special treatment needed, if necessary
no data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards arising from the chemical
no data available
Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.
Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up
Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Occupational Exposure limit values
no data available  
Biological limit values
no data available  
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 
Individual protection measures, such as personal protective equipment (PPE)
Eye/face protection
Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Skin protection
Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. 
Respiratory protection
Wear dust mask when handling large quantities.  
Thermal hazards
no data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state 
Powder  
Colour
no data available  
Odour
no data available  
Melting point/ freezing point
100-104oC(lit.)  
Boiling point or initial boiling point and boiling range
187.6oC at 760 mmHg  
Flammability
no data available  
Lower and upper explosion limit / flammability limit
no data available  
Flash point
71.9oC  
Auto-ignition temperature
no data available  
Decomposition temperature
no data available
pH
no data available
Kinematic viscosity
no data available
Solubility
no data available
Partition coefficient n-octanol/water (log value)
no data available
Vapour pressure
0.174mmHg at 25°C
Density and/or relative density
1.168 g/mL at 25°C(lit.)
Relative vapour density
no data available
Particle characteristics
no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity
no data available
Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
no data available
Conditions to avoid
no data available
Incompatible materials
no data available
Hazardous decomposition products
no data available

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological information
Acute toxicity
Oral: no data available
Inhalation: no data available
Dermal: no data available
Skin corrosion/irritation
no data available
Serious eye damage/irritation
no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
no data available
Carcinogenicity
no data available
Reproductive toxicity
no data available
SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Toxicity to fish: no data available
Toxicity to daphnia and other aquatic invertebrates: no data available
Toxicity to algae: no data available
Toxicity to microorganisms: no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
Other adverse effects
no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Product
The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Contaminated packaging
Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14. TRANSPORT INFORMATION

UN Number
ADR/RID: UN1566 IMDG: UN1566 IATA: UN1566
UN Proper Shipping Name
ADR/RID: BERYLLIUM COMPOUND, N.O.S.
IMDG: BERYLLIUM COMPOUND, N.O.S.
IATA: BERYLLIUM COMPOUND, N.O.S.
Transport hazard class(es)
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
Packing group, if applicable
ADR/RID: II IMDG: II IATA: II
Environmental hazards
ADR/RID: yes IMDG: yes IATA: yes
Special precautions for user
no data available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
no data available

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question
Chemical name Common names and synonyms CAS number EC number
Beryllium acetylacetonate Beryllium acetylacetonate 10210-64-7 none
European Inventory of Existing Commercial Chemical Substances (EINECS) Listed.
EC Inventory Listed.
United States Toxic Substances Control Act (TSCA) Inventory Not Listed.
China Catalog of Hazardous chemicals 2015 Not Listed.
New Zealand Inventory of Chemicals (NZIoC) Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS) Not Listed.
Vietnam National Chemical Inventory Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Not 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. 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 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.