SECTION 1. IDENTIFICATION

Product Identifier: (4N) 99.99% Ammonium Bismuth Citrate

Product Code: BI-AMCAT-04

CAS Number: 31886-41-6

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:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Not classified.
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Not classified.

2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Not classified.
S Phrase(s) : S22 : Do not breathe dust.
S24/25 : Avoid contact with skin and eyes.
Labelling Regulation EC 1272/2008 (CLP)
Not classified.

2.3. Other hazards
Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Preparation : BISMUTH AMMONIUM CITRATE EXTRA PURE
SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures
Inhalation: Assure fresh air breathing. Allow the victim to rest.
Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and
water, followed by warm water rinse.
Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or
redness persist.
Ingestion: Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms relating to use: Not expected to present a significant hazard under anticipated conditions
of normal
use.

4.3. Indication of any immediate medical attention and special treatment needed
General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek
medical advice (show the label where possible).

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.
Surrounding fires: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters
Protection against fire: Do not enter fire area without proper protective equipment, including
respiratory
protection.
Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water
to
enter environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
For emergency responders: Equip cleanup crew with proper protection.
Ventilate area.
For non-emergency personnel: Evacuate unnecessary personnel.

6.2. Environmental precautions
Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product
enters
sewers or public waters.

6.3. Methods and material for containment and cleaning up
Clean up methods: On land, sweep or shovel into suitable containers. Minimize generation of dust.
Store away from other materials.
SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Handling: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Technical protective measures: Provide good ventilation in process area to prevent formation of Vapor.

7.2. Conditions for safe storage, including any incompatibilities: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

7.3. Specific end use(s)
Specific end use(s): None.

SECTION 8. EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1. Exposure controls
Personal protection: Avoid all unnecessary exposure.
• Respiratory protection: Wear approved mask.
• Hand protection: Wear protective gloves.
• Eye protection: Chemical goggles or safety glasses.
• Others: When using, do not eat, drink or smoke.

8.2. Control parameters
Occupational Exposure Limits: No data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Physical state at 20 °C: Solid.
Colour: White powder
Odor: Odorless
Odor threshold: No data available.
\( \text{pH} \) value: N/A
Melting point [°C]: No data available.
Decomposition point [°C]: N/A
Critical temperature [°C]: N/A
Auto-ignition temperature [°C]: N/A
Flammability (solid, gas): N/A
Flash point [°C]: N/A
Boiling point [°C]: N/A
Initial boiling point [°C]: N/A
Final boiling point [°C]: N/A
Evaporation rate: N/A
Vapor pressure [20°C]: N/A
Vapor pressure mm/Hg: N/A
Vapor density: N/A
Density [g/cm³]: 1.8
SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity
Reactivity : Not established.

10.2. Chemical stability
Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
Hazardous reactions : Not established.

10.4. Conditions to avoid
Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute toxicity
• Inhalation : Based on available data, the classification criteria are not met.
• Dermal : Based on available data, the classification criteria are not met.
• Ingestion : Based on available data, the classification criteria are not met.
Corrosion : Based on available data, the classification criteria are not met.
Irritation : Based on available data, the classification criteria are not met.
Sensitization : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Carcinogenicity : Based on available data, the classification criteria are not met.
Toxic for reproduction : Based on available data, the classification criteria are not met.
STOT-single exposure : Based on available data, the classification criteria are not met.
STOT-repeated exposure : Based on available data, the classification criteria are not met.
Aspiration hazard : Based on available data, the classification criteria are not met.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity
Toxicity information : Not established.

12.2. Persistence - degradability
Persistence - degradability: Biodegradable.
12.3. Bioaccumulative potential
Bioaccumulative potential: Not established.
12.4. Mobility in soil
Mobility in soil: Not established.
12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects
Environmental precautions: Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. TRANSPORT INFORMATION

14.1. Land transport (ADR-RID)
General information: Not regulated.
14.2. Sea transport (IMDG) [English only]
General information: Not regulated.
14.3. Air transport (ICAO-IATA) [English only]
General information: Not regulated.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental: Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture
REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment
Chemical Safety Assessment: It has not been carried out.

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.