

# SAFETY DATA SHEET

Date Accessed: 04/23/2024

Date Revised: 01/15/2022

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## SECTION 1. IDENTIFICATION

**Product Name:** Ammonium Bismuth Citrate

**Product Number:** All applicable American Elements product codes, e.g. BI-AMCAT-02 , BI-AMCAT-03 , BI-AMCAT-04 , BI-AMCAT-05

**CAS #:** 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

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## 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.

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Preparation : BISMUTH AMMONIUM CITRATE EXTRA PURE

CAS No :31886-41-6

Substance.

Contains no other components or impurities which will influence the classification of the product.

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## **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).

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## **SECTION 5. FIREFIGHTING MEASURES**

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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.

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## **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.

### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

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## 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.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

Specific end use(s) : None.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL 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.

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## 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.

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/cm<sup>3</sup>] : 1,8  
Relative density, gas (air=1) : N/A  
Relative density, liquid (water=1) : N/A  
Solubility in water [% weight] : Soluble in water  
Solubility in water : N/A  
Log Pow octanol / water at 20°C : No data available.  
Solubility : N/A  
Viscosity at 40°C [mm<sup>2</sup>/s] : N/A  
9.2. Other information  
Explosive properties : N/A  
Explosion limits - upper [%] : N/A  
Explosion limits - lower [%] : N/A  
Oxidising properties : No data available.

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## 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  
Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

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## 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.

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## **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.

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## **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.

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## **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.

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## **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.

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## **SECTION 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

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