

# SAFETY DATA SHEET

Date Printed: 05/14/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (5N) 99.999% Arsenobetaine

Product Code: AS-BETE-05

CAS Number: 64436-13-1

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**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Classification Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) Label elements Signal word Not classified Hazard statements Symbols/Pictograms Not classified Precautionary Statements - Prevention Wash hands thoroughly after handling **Precautionary Statements - Response** IF exposed or concerned: Get medical advice/attention Hazards not otherwise classified (HNOC) Hazards not otherwise classified (HNOC) N/A Other Information Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity. NFPA Health hazards 2 Flammability 0 Instability -Physical and chemical properties -

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

CAS No 64436-13-1 Molecular Weight 178.06 Formula C5H11AsO2 Chemical Name CAS No weight-% Oral LD50 dermal LD50 Inhalation LC50 Arsenobetaine 64436-13-1 >98 - - -

## **SECTION 4. FIRST AID MEASURES**

First Aid Measures

General advice Consult a physician if necessary. Remove to fresh air.

Eye contact Wash with plenty of water.

Skin Contact Wash skin with soap and water.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms No data available.

Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically.

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media

Suitable Extinguishing Media In case of fire: Use CO2, dry chemical, or foam for extinction. Unsuitable Extinguishing Media Contact with water liberates toxic, highly flammable gas. DO NOT USE WATER. Specific hazards arising from the chemical Specific hazards arising from the chemical Highly flammable. Hazardous combustion products Carbon oxides. Explosion data Sensitivity to Mechanical Impact No data available. Sensitivity to Static Discharge No data available. Protective equipment and precautions for firefighters Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information. Prevent product from entering drains.

Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

## SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling May cause damage to organs through prolonged or repeated exposure. Contact with water

liberates toxic, highly flammable gas.

Conditions for safe storage, including any incompatibilities Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room

temperature.

Incompatible materials None known based on information supplied.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

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

**Physical State Solid** 

Appearance No data available Odor No data available **Property Values** pH No data available Melting point/freezing point No data available Boiling point No data available Flash point No data available Density No data available Evaporation rate No data available Upper flammability limits No data available Lower flammability limit No data available Vapor pressure No data available Vapor density No data available Specific gravity No data available Water solubility No data available Solubility in other solvents No data available Partition coefficient No data available Autoignition temperature No data available Decomposition temperature No data available Kinematic viscosity No data available Explosive properties No data available Oxidizing properties No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity N/A

Chemical stability Stable under recommended storage conditions. Possibility of Hazardous Reactions Contact with water liberates toxic, highly flammable gas. Hazardous polymerization No data available. Conditions to avoid Extremes of temperature and direct sunlight. Incompatible materials Strong oxidizing agents. Hazardous Decomposition Products Carbon oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation No data available. Eye contact No data available. Skin Contact No data available. Ingestion No data available. Information on toxicological effects Symptoms No data available. Delayed and immediate effects as well as chronic effects from short and long-term exposure Chronic Toxicity No data available. Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Chemical Name ACGIH IARC NTP OSHA Arsenobetaine 64436-13-1 - Group 3 - X IARC (International Agency for Research on Cancer) Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present Numerical measures of toxicity - Product Information Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity

#### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity May cause long lasting harmful effects to aquatic life 100% of the mixture consists of components(s) of unknown hazards to the aquatic environment. Persistence and degradability No data available. Bioaccumulation No data available. Mobility No data available.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of wastes

Should not be released into the environment. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated packaging Do not reuse container.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT UN/ID no UN3077 Hazard Class 9 Packing Group III Proper shipping name Environmentally hazardous substance, solid, n.o.s.\* Description UN3077, Environmentally hazardous substance, solid, n.o.s.\*, 9, III **Emergency Response Guide Number 171** IMDG UN/ID no UN3077 Hazard Class 9 Packing Group III Proper shipping name Environmentally hazardous substance, solid, n.o.s.\* Description UN3077, Environmentally hazardous substance, solid, n.o.s.\*, 9, III Special Provisions 146, 335, A112, B54, B120, IB8, IP3, N20, T1, TP33, 8 EmS-No F-A, S-F IATA **UN/ID no UN3077** Hazard Class 9 Packing Group III Proper shipping name Environmentally hazardous substance, solid, n.o.s.\* Description UN3077, Environmentally hazardous substance, solid, n.o.s.\*, 9, III

#### **SECTION 15. REGULATORY INFORMATION**

International Inventories All of the components in the product are on the following Inventory lists No data available X - Listed TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified **Chemical Substances ENCS - Japan Existing and New Chemical Substances** IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances **US** Federal Regulations **SARA 313** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. SARA 311/312 Hazard Categories Acute health hazard No Chronic Health Hazard No Fire hazard No Sudden release of pressure hazard No Reactive hazard No CWA (Clean Water Act) This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42). **US State Regulations** California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Regulations This product does not contain any substances regulated by state right-to-know regulations

## **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.