

# SAFETY DATA SHEET

**Date Printed:** 05/11/2024 **Date Revised:** 01/15/2022

### **SECTION 1. IDENTIFICATION**

Product Identifier: (2N) 99% Arsenobetaine

**Product Code:** AS-BETE-02

**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 -

HMIS Health hazards 2 Flammability 0 Physical hazards 0

## 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**

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.