

# SAFETY DATA SHEET

Date Printed: 05/12/2024 Date Revised: 01/15/2022

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

Product Identifier: (2N) 99% Aluminum Selenide

Product Code: AL-SE-02

CAS Number: 1302-82-5

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 This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200 Acute oral toxicity Category 3 Acute Inhalation Toxicity - Dusts and Mists Category 3 Specific target organ toxicity - (repeated exposure) Category 2 Target Organs - Liver. Signal Word Danger Hazard Statements May cause damage to organs through prolonged or repeated exposure Toxic if swallowed or if inhaled



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray Response Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Very toxic to aquatic life with long lasting effects

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS-No Weight % Aluminum selenide (Al2Se3) 1302-82-5 <=100

# **SECTION 4. FIRST AID MEASURES**

**General Advice** 

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Eye Contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a

pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

# **SECTION 5. FIREFIGHTING MEASURES**

Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature No information available

Explosion Limits Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical Do not allow run-off from fire-fighting to enter drains or water courses. Hazardous Combustion Products Hydrogen selenide. 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. Thermal decomposition can lead to release of irritating gases and vapors. NFPA Health - 4 Flammability - 0 Instability - 0 Physical hazards -

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** 

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Environmental Precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities

should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation

#### **SECTION 7. HANDLING AND STORAGE**

Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance. Storage

Keep containers tightly closed in a dry, cool and well-ventilated place

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

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

**Physical State Solid Pieces** Appearance Light brown Odor Odorless Odor Threshold No information available pH No information available Melting Point/Range No data available Boiling Point/Range No information available Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid,gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity 3.437 g/cm3 Solubility Decomposes in contact with water Partition coefficient; n-octanol/water No data available Autoignition Temperature No information available Decomposition Temperature No information available Viscosity Not applicable Molecular Formula Al2 Se3 Molecular Weight 290.84

# SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available Stability Stable under normal conditions. Conditions to Avoid Incompatible products. Incompatible Materials Acids, Strong oxidizing agents, Water Hazardous Decomposition Products Hydrogen selenide Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing.

# SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Product Information Component Information Toxicologically Synergistic Products No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation No information available Sensitization No information available Mutagenic Effects No information available. Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure Liver Aspiration hazard No information available Symptoms / effects,both acute and delayed No information available Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated.

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

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following

substances which are hazardous for the environment. Reacts with water so no ecotoxicity data for the substance is available. Persistence and Degradability Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available. Mobility Is not likely mobile in the environment

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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

DOT **UN-No UN3283** Proper Shipping Name SELENIUM COMPOUND, SOLID, N.O.S. Technical Name (Aluminium selenide) Hazard Class 6.1 Packing Group II TDG **UN-No UN3283** Proper Shipping Name SELENIUM COMPOUND, SOLID, N.O.S. Hazard Class 6.1 Packing Group II IATA **UN-No UN3283** Proper Shipping Name SELENIUM COMPOUND, SOLID, N.O.S. Hazard Class 6.1 Packing Group II IMDG/IMO **UN-No UN3283** Proper Shipping Name SELENIUM COMPOUND, SOLID, N.O.S. Hazard Class 6.1

# **SECTION 15. REGULATORY INFORMATION**

CERCLA Not applicable California Proposition 65 This product does not contain any Proposition 65 chemicals U.S. Department of Transportation Reportable Quantity (RQ): N DOT Marine Pollutant N DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals. Other International Regulations Mexico - Grade No information available

#### **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.