

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (4N) 99.99% Diethyl Selenide

**Product Code:** 2ET-SE-04-LIQ

**CAS Number:** 627-53-2

**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

Statement of Hazard: Environmentally hazardous, Flammable liquid, Irritant, Respiratory irritant, Toxic  
Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be toxic by ingestion and inhalation, harmful by skin absorption. Chronic Health Hazard: Target organ effect  
To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure. HMIS Rating: H: 2 F: 3 P:0 NFPA Rating: H: 2 F: 3 R: 0 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): Acute toxicity, dermal (Category 4), H312 Acute toxicity, inhalation (Category 3), H331 Acute toxicity, oral (Category 3), H301 Flammable liquids (Category 2), H225 Hazardous to the aquatic environment, chronic toxicity (Category 1), H410 Serious eye damage/eye irritation (Category 2A), H319 Skin corrosion/irritation (Category 2), H315 Specific target organ toxicity, repeated exposure (Category 2), H373 Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335 Pictogram:



Signal Word: Danger Hazard Statement(s): H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long-lasting effects. Precautionary Statement(s): P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P240 Ground/bond container and receiving equipment. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid

release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P403+P235 Store in a well-ventilated place. Keep cool.

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

Chemical Name: Diethyl selenide 99.99% Synonyms: Selenium diethyl CAS Number: 627-53-2

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

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention. Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention. Ingestion: Do not induce vomiting. Seek medical attention. Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.

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### **SECTION 5. FIREFIGHTING MEASURES**

Flash Point (°C): 22 Explosion Limits: Not Available Auto Ignition Temperature (°C): Not Available Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray Protective Equipment: Wear self-contained respirator and fully protective impervious suit. Specific Hazards: May emit hazardous fumes under fire conditions.

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### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away. Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

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

Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. Store in a tightly closed container in a dry, well-ventilated place. Sensitivities: Air, Moisture Storage Temperature (°C): 15 to 30

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

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction. Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity. Skin Protection: Wear impervious gloves and protective clothing. Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow liquid Odor: Stench Odor Threshold: Not Available Flash Point (°C): 22 Auto Ignition Temperature (°C): Not Available Melting Point (°C): Not Available Boiling Point (°C): 108-111 Evaporation Rate: Not Available pH Value: Not Available Density (g/cm<sup>3</sup>): 1.232 Refractive Index (n<sup>20</sup>D): Not Available Viscosity: Not Available Solubility in Water: Not Available Solubility in Other: Not Available Vapor Pressure (mmHg): Not Available Vapor Density (Air=1): Not Available

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## SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures. Incompatibility: Strong oxidizing agents Reactivity: Product may react with incompatible materials to release other hazardous substances. Conditions to Avoid: Heat, flame, sparks, other ignition sources. Hazardous Decomposition Products: Carbon oxides, Selenium oxides

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## SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: VS6870000 Target Organs: Nerves Toxicity Data: Not Available Carcinogenicity: National Toxicology Program (NTP) listed: Not Available International Agency for Research on Cancer (IARC) listed: Not Available Potential Symptoms: Not Available

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## SECTION 12. ECOLOGICAL INFORMATION

Toxicity: Not Available

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## SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

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## SECTION 14. TRANSPORT INFORMATION

DOT Shipping Name: Flammable Liquids, Toxic, N.O.S. DOT UN Number: UN1992 DOT Hazard Class: Class 3, 6.1 DOT Packing Group: PGII IMDG Shipping Name: Flammable Liquids, Toxic, N.O.S. IMDG UN Number: UN1992 IMDG Hazard Class: Class 3, 6.1 IMDG Packing Group: PG II Marine Pollutant: No IATA Shipping Name: Flammable Liquids, Toxic, N.O.S. IATA UN Number: UN1992 IATA Hazard Class: Class 3, 6.1 IATA Packing Group: PG II

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## SECTION 15. REGULATORY INFORMATION

United States Toxic Substance Control Act (TSCA) listed: No Superfund Amendments and Reauthorization Act (SARA 302) listed: No Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No Superfund Amendments and Reauthorization Act (SARA 313) listed: No European Union European Inventory of Existing Chemical Substances (EINECS): Not Available Canada Canadian Domestic Substances List (DSL) listed: No Canadian Non-Domestic Substances List (NDSL) listed: No

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## 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.