



#### **1 - Product**

**Product Name BENZENESELENINIC ACID ANHYDRIDE**

**Product Number 12590**

#### **2 - Hazards Identification**

**SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT**

**Toxic by inhalation and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**

#### **3 - Composition/Information on Ingredients**

**Product Name CAS # EC no Annex I**

**Index Number**

**BENZENESELENINIC ACID ANHYDRIDE 17697-12-0 241-701-3 034-002-00-8**

**Formula C<sub>12</sub>H<sub>10</sub>O<sub>3</sub>Se<sub>2</sub>**

**Molecular Weight 360.13 AMU**

#### **4 - First Aid Measures**

**AFTER INHALATION**

**If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.**

**AFTER EYE CONTACT**

**Assure adequate flushing of the eyes by separating the eyelids with fingers.**

**AFTER INGESTION**

**If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.**

#### **5 - Fire Fighting Measures**

**EXTINGUISHING MEDIA**

**Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.**

**SPECIAL RISKS**

**Specific Hazard(s): Emits toxic fumes under fire conditions.**

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

**Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.**

#### **6 - Accidental Release Measures**

##### **PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL**

**Evacuate area.**

##### **PROCEDURE(S) OF PERSONAL PRECAUTION(S)**

**Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.**

##### **METHODS FOR CLEANING UP**

**Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.**

#### **7 - Handling and Storage**

##### **HANDLING**

**Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.**

##### **STORAGE**

**Conditions of Storage: Keep tightly closed. Store in a cool dry place.**

**SPECIAL REQUIREMENTS: Moisture sensitive. Handle and store under inert gas.**

#### **8 - Exposure Controls / Personal Protection**

##### **ENGINEERING CONTROLS**

**Use only in a chemical fume hood. Safety shower and eye bath.**

##### **GENERAL HYGIENE MEASURES**

**Wash thoroughly after handling.**

##### **PERSONAL PROTECTIVE EQUIPMENT**

**Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.**

#### **9 - Physical and Chemical Properties**

**Appearance Color: Faintly yellow**

**Form: Powder**

**Property Value At Temperature or Pressure**

**pH N/A**

**BP/BP Range N/A**

**MP/MP Range 167 °C**

**Flash Point N/A**

**Flammability N/A**

**Autoignition Temp N/A**

**Oxidizing Properties N/A**

**Explosive Properties N/A**  
**Explosion Limits N/A**  
**Vapor Pressure N/A**

**SG/Density N/A**  
**Partition Coefficient N/A**  
**Viscosity N/A**  
**Vapor Density N/A**  
**Saturated Vapor Conc. N/A**  
**Evaporation Rate N/A**  
**Bulk Density N/A**  
**Decomposition Temp. N/A**  
**Solvent Content N/A**  
**Water Content N/A**  
**Surface Tension N/A**  
**Conductivity N/A**  
**Miscellaneous Data N/A**  
**Solubility N/A**

#### **10 - Stability and Reactivity**

##### **STABILITY**

**Conditions of Instability: May decompose on exposure to moist air or water.**

**Materials to Avoid: Bases, Oxidizing agents Avoid contact with metals.**

##### **HAZARDOUS DECOMPOSITION PRODUCTS**

**Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Selenium/selenium oxides.**

##### **HAZARDOUS POLYMERIZATION**

**Hazardous Polymerization: Will not occur**

#### **11 - Toxicological Information**

##### **ROUTE OF EXPOSURE**

**Skin Contact: May cause skin irritation.**

**Skin Absorption: May be harmful if absorbed through the skin.**

**Eye Contact: May cause eye irritation.**

**Inhalation: Toxic if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.**

**Ingestion: Toxic if swallowed.**

##### **TARGET ORGAN INFORMATION**

**Liver.**

#### **12 - Ecological Information**

**No data available.**

#### **13 - Disposal Considerations**

## **SUBSTANCE DISPOSAL**

**Bury in a landfill site approved for the disposal of chemical and hazardous wastes. Observe all federal, state, and local environmental regulations.**

### **14 - Transport Information**

**RID/ADR**

**UN#: 3283**

**Class: 6.1**

**PG: II**

**Proper Shipping Name: Selenium compound, n.o.s.**

**IMDG**

**UN#: 3283**

**Class: 6.1**

**PG: II**

**Proper Shipping Name: Selenium compound, n.o.s.**

**Marine Pollutant: No**

**Severe Marine Pollutant: No**

**Technical Name: Required**

**IATA**

**UN#: 3283**

**Class: 6.1**

**PG: II**

**Proper Shipping Name: Selenium compound, n.o.s.**

**Inhalation Packing Group I: No**

**Technical Name: Required**

### **15 - Regulatory Information**

**CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES**

**ANNEX I INDEX NUMBER: 034-002-00-8**

**NOTA: A**

**INDICATION OF DANGER: T-N**

**Toxic. Dangerous for the environment.**

**R-PHRASES: 23/25-33-50/53**

**Toxic by inhalation and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**

**S-PHRASES: 20/21-28-45-60-61**

**When using do not eat, drink, or smoke. After contact with skin, wash immediately with plenty of soap-suds. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.**

**COUNTRY SPECIFIC INFORMATION**

**Germany**  
**WGK: 3**  
**Self-Classification**

**16 - Other Information**

**WARRANTY**

**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. Sparchem 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.**

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