# Material Safety Data Sheet Phenylselenyl bromide, 98%

ACC# 95771

## Section 1 - Chemical Product and Company Identification

MSDS Name: Phenylselenyl bromide, 98%

Catalog Numbers: AC223060000, AC223060050, AC223060250

**Synonyms:** Benzeneselenyl bromide.

**Company Identification:** 

Acros Organics N.V. One Reagent Lane Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01 For emergencies in the US, call CHEMTREC: 800-424-9300

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
34837-55-3	Phenylselenyl bromide	98	252-238-1

## Section 3 - Hazards Identification

#### **EMERGENCY OVERVIEW**

Appearance: black crystals.

Stench. Moisture sensitive. The toxicological properties of this material have not been fully investigated.

Target Organs: Liver.

#### **Potential Health Effects**

**Eye:** May cause eye irritation. **Skin:** May cause skin irritation.

**Ingestion:** Poison by ingestion. The toxicological properties of this substance have not been fully investigated. **Inhalation:** The toxicological properties of this substance have not been fully investigated. Toxic if inhaled.

**Chronic:** Symptoms demonstrated by humans suffering from chronic selenium intoxication, selenosis, include depression, languor, nervousness, dermatitis, gastrointestinal disturbances, giddiness, garlic odor of the breath and sweat, moderate emotional instability,

excess dental caries, and in extreme cases, loss of fingernails and partial alopecia (hair loss).

### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid imme diately.

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use foam, dry chemical, or carbon dioxide.

Flash Point: Not available.

**Autoignition Temperature:** Not available. **Explosion Limits, Lower:** Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: ; Flammability: ; Instability:

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

## Section 7 - Handling and Storage

**Handling:** Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. **Storage:** Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket.

# Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
	0.2 mg/m3 TWA (as Se) (listed under Selenium compounds).	0.2 mg/m3 TWA (as Se, except Selenium hexafluoride) (listed under Selenium compounds).	0.2 mg/m3 TWA (as Se) (listed under Selenium compounds).

OSHA Vacated PELs: Phenylselenyl bromide: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment** 

**Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** 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.

## Section 9 - Physical and Chemical Properties

Physical State: Crystals Appearance: black Odor: stench pH: Not available.

Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate:Not available. Viscosity: Not available.

**Boiling Point:** 107 - 108 deg C @ 15 mm Hg **Freezing/Melting Point:**60 - 62 deg C **Decomposition Temperature:**Not available.

Solubility: insoluble

Specific Gravity/Density:Not available.

Molecular Formula:C6H5BrSe Molecular Weight:235.97

# Section 10 - Stability and Reactivity

Chemical Stability: Not available.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen bromide, selenium/selenium oxides.

Hazardous Polymerization: Has not been reported.

## Section 11 - Toxicological Information

RTECS#:

CAS# 34837-55-3 unlisted.

LD50/LC50: Not available.

Carcinogenicity:

CAS# 34837-55-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.

Other Studies:

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the

classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	TOXIC SOLID CORROSIVE ORGANIC NOS (PHENYLSELENYL BROMIDE)
Hazard Class:		6.1(8)
UN Number:		UN2928
Packing Group:		II

# Section 15 - Regulatory Information

#### **US FEDERAL**

CAS# 34837-55-3 is not listed on the TSCA inventory. It is for research and development use only.

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

#### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

### **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

This material contains Phenylselenyl bromide (listed as Selenium compounds), 98%, (CAS# 34837-55-3) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

### **Clean Air Act:**

CAS# 34837-55-3 (listed as Selenium compounds) is listed as a hazardou s air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 34837-55-3 is listed as a Toxic Pollutant under the Clean Water Act.

# OSHA: STATE

None of the chemicals in this product are considered highly hazardous by OSHA.

CAS# 34837-55-3 can be found on the following state right to know lists: California, (listed as Selenium compounds), New Jersey, (listed as Selenium compounds), Pennsylvania, (listed as Selenium compounds).

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

#### **European/International Regulations**

## **European Labeling in Accordance with EC Directives**

# **Hazard Symbols:**

ΤN **Risk Phrases:** 

## R 23/25 Toxic by inhalation and if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

## Safety Phrases:

S 20/21 When using do not eat, drink or smoke.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardou s waste.

S 28A After contact with skin, wash immediately with plenty of water

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

## WGK (Water Danger/Protection)

CAS# 34837-55-3: No information available.

#### Canada - DSL/NDSL

None of the chemicals in this product are listed on the DSL or NDSL list.

# Canada - WHMIS

not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

### **Canadian Ingredient Disclosure List**

CAS# 34837-55-3 (listed as Selenium compounds) is listed on the Canadian Ingredient Disclosure List.

# Section 16 - Additional Information

MSDS Creation Date: 9/02/1997 Revision #4 Date: 5/10/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.