

# SAFETY DATA SHEET

Creation Date 16-Sep-2014

Revision Date 24-Dec-2021

**Revision Number** 4

1. Identification			
Product Name	Benzeneseleninic anhydride		
Cat No. :	AC199710000; AC199710050; AC199710250		
Synonyms	None		
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.		
Details of the supplier of the safety	data sheet		
<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410		
Emergency Telephone Number	For information <b>US</b> call: 001-800-ACROS-01 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US:</b> 001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 <b>CHEMTREC</b> Tel. No. <b>US:</b> 001-800-424-9300 / <b>Europe:</b> 001-703-527-3887		

### 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Specific target organ toxicity - (repeated exposure) Target Organs - Liver. Category 3 Category 2

### Label Elements

Signal Word Danger

### **Hazard Statements**

Toxic if swallowed May cause damage to organs through prolonged or repeated exposure



### **Precautionary Statements**

Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Response Get medical attention/advice if you feel unwell Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage Store locked up 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

### 3. Composition/Information on Ingredients

Component		CAS No	Weight %
Bis(phenylseleninic) anhydride		17697-12-0	98
	1	First aid massures	
	4.	First-aid measures	
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.		
Inhalation	Remove from exposure, lie down. Remove to fresh air. 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. If not breathing, give artificial respiration.		
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.		
Most important symptoms and effects	No information available.		
Notes to Physician	Treat symptomatically		
	5. Fi	re-fighting measures	
Suitable Extinguishing Media	Water spray.	Carbon dioxide (CO 2). Dry chemical	. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
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

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 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.

### NFPA

Health 3	Flammability 1	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment as required. 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 Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Bases. Metals.

### 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Bis(phenylseleninic) anhydride	TWA: 0.2 mg/m <sup>3</sup>	(Vacated) TWA: 0.2 mg/m <sup>3</sup>	IDLH: 1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### 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.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	No information available
Odor Threshold	No information available
Hq	No information available
Melting Point/Range	170 - 173 °C / 338 - 343.4 °F
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	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C12 H10 O3 Se2
Molecular Weight	360.13

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Moisture sensitive.		
Conditions to Avoid	Incompatible products. Exposure to moist air or water.		
Incompatible Materials	Bases, Metals		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	No information available.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

### Acute Toxicity

Product Information Component Information Toxicologically Synergistic

No information available

### Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No	o information available
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Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. IARC NTP ACGIH OSHA Mexico Т 

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Bis(phenylseleninic) anhydride	17697-12-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effects		No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		None known Liver				
Aspiration hazard		No information available				
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor Information No information available						
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				
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.						

Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	No information available.

	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.

	14. Transport information
DOT UN-No Proper Shipping Name Hazard Class Packing Group	UM3283 SELENIUM COMPOUND, SOLID, N.O.S. 6.1 II
_ <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group	UN3283 SELENIUM COMPOUND, SOLID, N.O.S. 6.1 II

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
Packing Group	ll
	15. Regulatory information

### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Bis(phenylseleninic) anhydride	17697-12-0	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Bis(phenylseleninic) anhydride	17697-12-0	-	-	241-701-3	-	-		-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

SARA 3	313 Not applicab	le		
	Component	CAS No	Weight %	SARA 313 - Threshold Values %
	Bis(phenylseleninic) anhydride	17697-12-0	98	1.0

#### See section 2 for more information SARA 311/312 Hazard Categories

#### CWA (Clean Water Act)

CWA (Clean Water Act)	Not applicable			
Component CWA - Hazardou Substances		CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Bis(phenylseleninic) anhydride	-	-	Х	-

Clean Air Act	Not applicable		
Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Bis(phenylseleninic) anhydride	Х		-
OSHA - Occupational Safety and	Not applicable		

Health Administration

### CERCLA

Not applicable

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California Proposition 65
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This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Not applicable Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Bis(phenylseleninic)	-	Х	Х	Х	Х
anhydride					

U.S. Department of Transportation				
Reportable Quantity (RQ):				
DOT Marine Pollutant				
DOT Severe Marine Pollutant				

N N N

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

### Other International Regulations

Mexico - Grade

No information available

### Authorisation/Restrictions according to EU REACH

Component		REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	<b>U</b> (
Bis(phenylseleninic) anhydride	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Bis(phenylseleninic) anhydride	17697-12-0	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Bis(phenylseleninic) anhydride	17697-12-0	Not applicable	Not applicable	Not applicable	Annex I - Y25

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	16-Sep-2014 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			
Disclaimen				

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**