



Revision Date 19-Apr-2012

Revision Number 4

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier Product Description: Cat No. Synonyms

Benzeneseleninic anhydride 199710000; 199710050 None

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sds

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

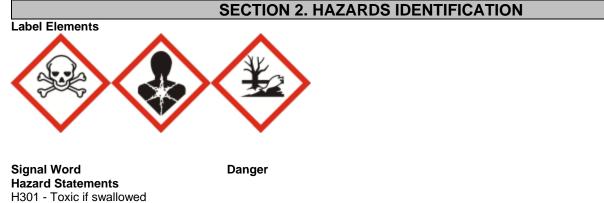
Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and	H-Statements mentioned in this Section, see Section 16
Symbol(s)	T - Toxic
	N - Dangerous for the environment
R-phrase(s)	R33 - Danger of cumulative effects
Risk Combination Phrases	R23/25 - Toxic by inhalation and if swallowed
	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment





Revision Date 19-Apr-2012



H410 - Very toxic to aquatic life with long lasting effects

H373 - May cause damage to organs through prolonged or repeated exposure

H331 - Toxic if inhaled

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Bis(phenylseleninic) anhydride 17697-12-0	EEC No. 241-701-3	98	17697-12-0	T; R23/25 R33 N; R50-53	Acute Tox. 3 (H301) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES





Revision Date 19-Apr-2012

	SECTION 4. FIRST AID MEASURES
Description of 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.
Ingestion	Call a physician immediately. Clean mouth with water.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.
Notes to Physician	Treat symptomatically
	SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

SAFETY DATA SHEET



Benzeneseleninic anhydride

Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

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

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

European Union	The United Kingdom	France	Belgium	Spain
	STEL: 0.3 mg/m ³ 15			VLA-ED: 0.1 mg/m ³ 8
	min			horas
	TWA: 0.1 mg/m ³ 8 hr			
				•
Italy	Germany	Portugal	The Netherlands	Finland
		TWA: 0.2 mg/m ³ 8		
		horas		
Austria	Denmark	Switzerland	Poland	Norway
STEL: 0.3 mg/m ³ 15				
Minuten				
TWA: 0.1 mg/m ³ 8				
Stunden				
	Italy Austria STEL: 0.3 mg/m ³ 15 Minuten TWA: 0.1 mg/m ³ 8	Italy Germany Austria Denmark STEL: 0.3 mg/m³ 15 min TWA: 0.1 mg/m³ 8 hr	Image: STEL: 0.3 mg/m³ 15 min TWA: 0.1 mg/m³ 8 hr Italy Germany Portugal TWA: 0.1 mg/m³ 8 hr TWA: 0.2 mg/m³ 8 horas Austria Denmark Switzerland STEL: 0.3 mg/m³ 15 Minuten TWA: 0.1 mg/m³ 8 Stel: 0.3 mg/m³ 8	Italy Germany Portugal The Netherlands Italy Germany Portugal The Netherlands TWA: 0.1 mg/m³ 8 hr TWA: 0.2 mg/m³ 8 horas TWA: 0.2 mg/m³ 8 horas

Biological limit values Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. No information available. No information available.
Exposure controls	
Engineering Measures Personal protective equipment Eye Protection Hand Protection Skin and body protection Respiratory Protection	Ensure adequate ventilation, especially in confined areas Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure 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 Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.





Revision Date 19-Apr-2012

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance pH Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Molecular Formula Molecular Weight Powder, Solid Beige No information available. No information available. 170 - 173°C / 338 - 343.4°F No information available. No information available. C12 H10 O3 Se2 360.13

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Moisture sensitive.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous Reactions . No information available. No information available.

Conditions to Avoid

Incompatible products, Exposure to moist air or water.

Incompatible Materials

Bases, Metals.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity Product Information

No acute toxicity information is available for this product

Component Information





Revision Date 19-Apr-2012

SECTION 11. TOXICOLOGICAL INFORMATION

Chronic Toxicity Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Endocrine Disruptor Information No information available. No information available No information available. No information available. No information available. None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Empty containers should be taken to local recyclers for disposal





Revision Date 19-Apr-2012

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	3283
Hazard Class	6.1
Packing Group	II
Proper Shipping Name	SELENIUM COMPOUND, SOLID, N.O.S.

ADR

UN-No	3283
Hazard Class	6.1
Packing Group	II
Proper Shipping Name	SELENIUM COMPOUND, SOLID, N.O.S.

IATA

UN-No	3283
Hazard Class	6.1
Packing Group	II
Proper Shipping Name	SELENIUM COMPOUND, SOLID, N.O.S.

SECTION 15. REGULATORY INFORMATION

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

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Bis(phenylseleninic) anhydride	241-701-3	-		-	-	-	-	-	-	-	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SAFETY DATA SHEET

Benzeneseleninic anhydride

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R33 - Danger of cumulative effects R23/25 - Toxic by inhalation and if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date Revision Summary 19-Apr-2012

Revision Summary

Reason for revision Not applicable This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet



Revision Date 19-Apr-2012