

Revision Date 25-Jan-2011

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: Phenylselenyl bromide
Cat No. 223060000; 223060050; 223060250
Synonyms Benzeneselenyl bromide

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium

E-mail address 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

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
Skin Corrosion / irritation	Category 1 B
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 mentioned in this Section, see Section 16

Symbol(s) T - Toxic
 N - Dangerous for the environment
 C - Corrosive

R -phrase(s) R33 - Danger of cumulative effects
 R34 - Causes burns

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

Phenylselenenyl bromide

Revision Date 25-Jan-2011

2. HAZARDS IDENTIFICATION

Label Elements



Signal Word

Danger

Hazard Statements

- H373 - May cause damage to organs through prolonged or repeated exposure
- H331 - Toxic if inhaled
- H410 - Very toxic to aquatic life with long lasting effects
- H301 - Toxic if swallowed
- H314 - Causes severe skin burns and eye damage

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
- P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P273 - Avoid release to the environment

Other Hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
-----------	--------	----------	--------	----------------	---------	----------------

Phenylselenyl bromide

Revision Date 25-Jan-2011

3. COMPOSITION/INFORMATION ON INGREDIENTS

Bromoselenobenzene 34837-55-3	EEC No. 252- 238-1	98	34837-55-3	T; R23/25 R33 C; R34 N; R50/53	Acute Tox. 3 (H301) Acute Tox. 3 (H331) Skin Corr. 1B (H314) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-
----------------------------------	-----------------------	----	------------	---	--	---

For the full text of the R phrases mentioned in this Section, see Section 16

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 removing all contaminated clothes and shoes Immediate medical attention is required

Ingestion

Do not induce vomiting Call a physician immediately

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

5. FIRE-FIGHTING MEASURES
Extinguishing media
Suitable Extinguishing Media

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

Phenylselenyl bromide

Revision Date 25-Jan-2011

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

Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Do not ingest 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 Corrosives area

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

Component

Bromoselenobenzene

European Union	The United Kingdom	France	Belgium	Spain
	STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³			

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls

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 Protection

Goggles

Hand Protection

Protective gloves

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

Phenylselenyl bromide

Revision Date 25-Jan-2011

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Dark brown
odor	Stench
pH	No information available.
Boiling Point/Range	107 - 108°C / 224.6 - 226.4°F @ 15 mmHg
Melting Point/Range	60 - 62°C / 140 - 143.6°F
Flash Point	No information available.
Water Solubility	Insoluble
Molecular Formula	C6 H5 Br Se
Molecular Weight	235.97

10. STABILITY AND REACTIVITYReactivityChemical Stability

Moisture sensitive.

Possibility of Hazardous Reactions**Hazardous Polymerization** No information available.**Hazardous Reactions .** No information available.Conditions to Avoid

Excess heat, Incompatible products, Exposure to moist air or water.

Incompatible Materials

Strong oxidizing agents, Strong bases.

Hazardous Decomposition ProductsHydrogen chloride gas. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen halides.**11. TOXICOLOGICAL INFORMATION**Information on Toxicological EffectsAcute Toxicity**Product Information** No acute toxicity information is available for this product**Component Information**Chronic Toxicity**Carcinogenicity** There are no known carcinogenic chemicals in this product

Phenylselenenyl bromide

Revision Date 25-Jan-2011

11. TOXICOLOGICAL INFORMATION

Sensitization	No information available.
Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	None known

12. ECOLOGICAL INFORMATION

Toxicity	
Ecotoxicity effects	Do not empty into drains

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

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 for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION**IMDG/IMO**

UN-No	2928
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	II
Proper Shipping Name	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.

Phenylselenyl bromide

Revision Date 25-Jan-2011

14. TRANSPORT INFORMATION
ADR

UN-No 2928
 Hazard Class 6.1
 Subsidiary Class 8
 Packing Group II
 Proper Shipping Name TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.

IATA

UN-No 2928
 Hazard Class 6.1
 Subsidiary Hazard Class 8
 Packing Group II
 Proper Shipping Name TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.*

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
Bromoselenobenzene	252-238-1	-		-	-	-	X	-	-	-	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory Lists

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
16. OTHER INFORMATION
Text of R phrases mentioned in Section 2-3

R33 - Danger of cumulative effects

R34 - Causes burns

Phenylselenenyl bromide

Revision Date 25-Jan-2011

16. OTHER INFORMATION

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 25-Jan-2011

Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS 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