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INDEX: D60902911 CAT NO: AC177570050 PO NBR: 30739K

Material Safety Data Sheet

Diphenyl diselenide, 99%
MSDS# 44783

Section 1 - Chemical Product and Company Identification

MSDS Name: Diphenyl diselenide, 99%
Catalog Numbers: AC177570000, AC177570050, AC177570250
Synonyms: Phenyl diselenide
Company Identification:

Acros Organics BVBA
Janssen Pharmaceuticaalaa 3a
2440 Geel, Belgium
One Reagent Lane
Fair Lawn, NJ 07410

Company Identification: (USA) Acros Organics
For information in the US, call:
800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US:
800-424-9300
CHEMTREC Phone Number, Europe:
703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 1666-13-3
Chemical Name: DIPHENYL DISELENIIDE
%: 99
EINECS#: 216-780-2

Hazard Symbols:

Risk Phrases:
23/25 33

Section 3 - Hazards Identification
EMERGENCY OVERVIEW

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. May cause liver damage. The toxicological properties of this substance have not been fully investigated.

Inhalation: The toxicological properties of this substance have not been fully investigated. May cause lung damage. Toxic if inhaled.

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 immediately.

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:

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 water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating:

Not published

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. Avoid generating dusty conditions.

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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.

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
DIPHENYL DISELENIIDE	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:
DIPHENYL DISELENIIDE:
0.2 mg/m3 TWA (as Se) (listed under Selenium compounds)

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: Solid
Color: slightly yellow
Odor: Stench
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 61 - 63 deg C
Decomposition Temperature: Not available
Solubility in water: insoluble
Specific Gravity/Density: C12H10Se2
Molecular Formula: 312.13
Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Not available

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Not available

Hazardous Decomposition Products

Hazardous Carbon monoxide, carbon dioxide, selenium/selenium oxides.

Hazardous Polymerization

Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 1666-13-3: JM9152500

LD50/LC50:

RTECS: Not available.

Carcinogenicity:

DIPHENYL DISELENIIDE -

IARC: Group 3 (not classifiable) (Selenium compounds).

Epidemiology:

Not available

Teratogenicity:

Not available

Reproductive:

Not available

Neurotoxicity:

Not available

Mutagenicity:

Not available

Other:

Not available

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Safety and Environmental
Health

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Not available

Section 12 - Ecological Information

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

Shipping Name: DOT regulated - small quantity provisions apply (s)
Hazard Class:
UN Number:
Packing Group:

Canada TDG

Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

US Federal

Section 15 - Regulatory Information

TSCA

CAS# 1666-13-3 is listed on the TSCA Inventory.

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.

Section 313

This material contains DIPHENYL DISELENIDE (listed as Selenium compounds), 99%, (CAS# 1666-13-3) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

CAS# 1666-13-3 listed as Selenium compounds is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

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# 1666-13-3 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

STATE

DIPHENYL DISELENIDE can be found on the following state right to know lists: California, (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: T

Risk Phrases:

R 23/25 Toxic by inhalation and if swallowed.

R 33 Danger of cumulative effects.

Safety Phrases:

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

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

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

WGK (Water Danger/Protection)

CAS# 1666-13-3: Not available

Canada

CAS# 1666-13-3 is listed on Canada's NDSL List

Canadian WHMIS Classifications: D2A

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.

CAS# 1666-13-3 is listed on Canada's Ingredient Disclosure List

Section 16 - Other Information

MSDS Creation Date:

9/02/1997

Revision #3 Date

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