GB

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.07.2021

CHEMICALS, INC.

Revision: 16.07.2021

1 1 Product id	
· 1.1 Product ide	entifier
· Trade name: L	Diphenylphosphine selenide
• Item number:	15-1772
· CAS Number:	
5853-64-5	
	lentified uses of the substance or mixture and uses advised against
No further rele	vant information available.
	he supplier of the safety data sheet
· Manufacturer/	
Strem Chemica	
7 Mulliken Wa	
NEWBURYPO	KI, MA 01950
USA info@strem.com	m
v	
	nation obtainable from: Technical Department
	e telephone number: : CHEMTREC: + 1 (800) 424-9300
	CHEMIREC: $+1$ (800) 424-9500 copening times: $+1$ (978) 499-1600
During normal	opening times. +1 (776) +77-1000
<b>SECTION 2</b>	: Hazards identification
CHY	206 skull and crossbones
	206 skull and crossbones
Acute Tox. 3 H	1301 Toxic if swallowed.
Acute Tox. 3 H • 2.2 Label elem	I301 Toxic if swallowed. ents
Acute Tox. 3 H • 2.2 Label elem • Labelling acco	1301 Toxic if swallowed. ents rding to Regulation (EC) No 1272/2008
Acute Tox. 3 H • 2.2 Label elem • Labelling acco The substance	1301 Toxic if swallowed. ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation.
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Acute Tox. 3 H 2.2 Label elem Labelling acco The substance Hazard pictogr GHS06 Signal word D Hazard statem H301 Toxic if s Precautionary P101 P102 P103	<ul> <li>1301 Toxic if swallowed.</li> <li>ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. rams</li> <li>anger ents ents ents ents fimedical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.</li> </ul>
Acute Tox. 3 H 2.2 Label elem Labelling acco The substance Hazard pictogr GHS06 Signal word D. Hazard statem H301 Toxic if s Precautionary P101 P102 P103 P231	<ul> <li>1301 Toxic if swallowed.</li> <li>ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. rams</li> <li>anger ents ents ents ents fimedical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas.</li> </ul>
Acute Tox. 3 H 2.2 Label elem Labelling acco The substance Hazard pictogr GHS06 Signal word D. Hazard statem H301 Toxic if s Precautionary P101 P102 P103 P231 P301+P310	<ul> <li>I301 Toxic if swallowed.</li> <li>ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. rams</li> <li>anger ents wallowed. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</li> </ul>
Acute Tox. 3 H 2.2 Label elem Labelling acco The substance Hazard pictogr GHS06 Signal word D. Hazard statem H301 Toxic if s Precautionary P101 P102 P103 P231 P301+P310	<ul> <li>1301 Toxic if swallowed.</li> <li>ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. rams</li> <li>anger ents wallowed. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. 2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,</li> </ul>
Acute Tox. 3 H 2.2 Label elem Labelling acco The substance Hazard pictogr GHS06 Signal word D Hazard statem H301 Toxic if s Precautionary P101 P102 P103 P231 P301+P310 P305+P351+F	<ul> <li>1301 Toxic if swallowed.</li> <li>ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. rams</li> <li>anger ents wallowed. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</li> <li>2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.</li> </ul>
Acute Tox. 3 H 2.2 Label elem Labelling acco The substance Hazard pictogr GHS06 Signal word D. Hazard statem H301 Toxic if s Precautionary P101 P102 P103 P231 P301+P310	<ul> <li>1301 Toxic if swallowed.</li> <li>ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. rams</li> <li>anger ents wallowed. statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. 2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,</li> </ul>

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P501

(Contd. of page 1) Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 5853-64-5 Diphenylphosphine selenide

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- · General information:
- Immediately remove any clothing soiled by the product.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting** *measures*

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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#### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Thorough dedusting. Open and handle receptacle with care.
- · Handling: Handle under inert gas.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage: Store contents under inert gas.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves* 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

• 9.1 Information on basic p • General Information	hysical and chemical properties	
· Appearance:		
Form:	Solid	
Colour:	White	
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· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	: Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
VOC (EC)	0.00 %	
9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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#### **SECTION 11: Toxicological information**

- ·11.1 Information on toxicological effects
- · Acute toxicity
- Toxic if swallowed.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- $\cdot$  Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, IMDG, IATA	UN3283	
· 14.2 UN proper shipping name		
$\cdot ADR$	3283 SELENIUM COMPOUND, SOLID, N.O.S.	
· IMDG, IATA	SELENIUM COMPOUND, SOLID, N.O.S.	

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· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
6 6	
· Class	6.1 Toxic substances.
· Label	6.1
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · EMS Number:	Warning: Toxic substances. F-A,S-A
· 14.7 Transport in bulk according to Ann. Marpol and the IBC Code	<b>ex II of</b> Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN ''Model Regulation'':	UN 3283 SELENIUM COMPOUND, SOLID, N.O.S., 6.1, III

## SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category H2 ACUTE TOXIC
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director

• Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 (Contd. of page 6)

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