

according to GB/T 16483 and GB/T 17519

# Nilvax Selenised Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/12/04
1.1	2024/03/05	11306356-00002	Date of first issue: 2023/12/04

## **1. PRODUCT AND COMPANY IDENTIFICATION**

:	Nilvax Selenised Formulation			
:	Nilvax Selenised (A3977)			
Manufacturer or supplier's details				
:	MSD			
:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
:	+1-908-740-4000			
:	86-571-87268110			
:	EHSDATASTEWARD@msd.com			
em	ical and restrictions on use			
:	Veterinary product Not applicable			
	eta : : : :			

## 2. HAZARDS IDENTIFICATION

Emergency Overview		
Appearance Colour Odour	:	Aqueous solution No data available No data available
May be harmful if swallowed.	Sus	pected of damaging the unborn child.
GHS Classification		
Acute toxicity (Oral)	:	Category 5
Reproductive toxicity	:	Category 2
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H303 May be harmful if swallowed. H361d Suspected of damaging the unborn child.

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### Precautionary statements

### Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### **Response:**

P312 Call a POISON CENTER/ doctor if you feel unwell.

### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

May be harmful if swallowed. Suspected of damaging the unborn child.

### Environmental hazards

Not classified based on available information.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Antigen	Not Assigned	>= 1 -< 10
(S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-	32093-35-9	>= 3 -< 10
b]thiazoletriylium phosphate		

### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water.

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If sw Most and delay	ase of eye contact allowed t important symptoms effects, both acute and yed ection of first-aiders	<ul> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> <li>Flush eyes with water as a precaution.</li> <li>Get medical attention if irritation develops and persists.</li> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> <li>May be harmful if swallowed.</li> <li>Suspected of damaging the unborn child.</li> <li>First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment</li> </ul>
Note	s to physician	<ul><li>when the potential for exposure exists (see section 8).</li><li>Treat symptomatically and supportively.</li></ul>
5. FIREFI	GHTING MEASURES	
Unsu med Spec fighti	cific hazards during fire-	<ul> <li>Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical</li> <li>None known.</li> <li>Exposure to combustion products may be a hazard to health</li> <li>Carbon oxides</li> </ul>
ods	cific extinguishing meth- cial protective equipment refighters	<ul> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to a so. Evacuate area.</li> <li>In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.</li> </ul>
6. ACCID	ENTAL RELEASE MEA	URES
tive e	onal precautions, protec- equipment and emer- cy procedures	: Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Envi	ronmental precautions	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Prevent spreading over a wide area (e.g. by containment or obarriers).</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained</li> </ul>

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	ods and materials for inment and cleaning up	Fo me be Cle be Lo em min Se	r large spills, p nt to keep mat pumped, store an up remainin nt. cal or national sal of this mate ployed in the c ne which regula ctions 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can e recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HANDL	ING AND STORAGE			
Hand	ling			
Techr	nical measures			measures under EXPOSURE SONAL PROTECTION section.
= • • • • • •	/Total ventilation e on safe handling	: Do Do Av Av Ha pra ses Ta	not breathe m not swallow. oid contact with oid prolonged o ndle in accorda actice, based o ssment	

Avoidance of contact	:	Oxidizing agents
Storage		
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	:	
Packaging material	:	Unsuitable material: None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
(S)-2,3,5,6-tetrahydro-6- phenylimidazo[2,1-	32093-35-9	TWA	20 µg/m3 (OEB 3)	Internal



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o]thiazoletriylium phosphate					
	Further inform	mation: Skin			
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal	
Engineering measures	technologies less quick co All engineer	s to control airbo onnections). ing controls sho	g controls and manufa orne concentrations (e uld be implemented b	.g., drip- y facility	
	protect prod Containmen are required the compou tainment de	ucts, workers, a t technologies s to control at so nd to uncontrolle	ordance with GMP prir nd the environment. suitable for controlling urce and to prevent m ed areas (e.g., open-fa	compounds igration of	
Personal protective equipme	ent				
Respiratory protection	sure assess ommended	ment demonstra guidelines, use	entilation is not availab ates exposures outside respiratory protection.		
Filter type	: Particulates	type			
Eye/face protection	If the work e mists or aer Wear a face	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or			
Skin and body protection	Additional b task being p posable suit	erformed (e.g., s) to avoid expo riate degowning	coat. hould be used based t sleevelets, apron, gau sed skin surfaces. techniques to remove	ntlets, dis-	
Hand protection		0			
Material	: Chemical-re	sistant gloves			
Remarks Hygiene measures	: If exposure eye flushing ing place. When using Wash conta The effective engineering appropriate	do not eat, drin minated clothing e operation of a controls, proper degowning and		the work- review of quipment, edures,	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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	Appeara	ance	:	Aqueous solution	
	Colour		:	No data available	•
	Odour		:	No data available	9
	Odour T	hreshold	:	No data available	
	pН		:	3.4 - 3.9	
	Melting	point/freezing point	:	No data available	
	Initial bo range	piling point and boiling	:	No data available	
	Flash po	pint	:	No data available	•
	Evapora	ation rate	:	No data available	9
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	No data available	•
		xplosion limit / Upper pility limit	:	No data available	
		xplosion limit / Lower pility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	vapour density	:	No data available	
	Relative	density	:	No data available	
	Density		:	No data available	
	Solubilit Wate	y(ies) er solubility	:	No data available	
	Partition	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decomp	oosition temperature	:	No data available	
	Viscosit Visco	y osity, kinematic	:	No data available	
	Explosiv	ve properties	:	Not explosive	



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Oxid	Oxidizing properties Molecular weight Particle characteristics Particle size		: The substance or mixture is not classified as oxidizing.				
Mole			: No data available				
			Not applicable				
10. STAE		Y					
Cher Poss tions		- :	Stable under nor Can react with s	a reactivity hazard. rmal conditions. trong oxidizing agents.			
Inco	ditions to avoid mpatible materials ardous decomposition ucts	:	None known. Oxidizing agents No hazardous de	ecomposition products are known.			
11. TOXI	COLOGICAL INFORMA	τιοι	N				
Expo	osure routes	:	Inhalation Skin contact Ingestion Eye contact				
May	<b>te toxicity</b> be harmful if swallowed. <b>Juct:</b>						
	e oral toxicity	:	Acute toxicity est Method: Calculat	imate: 4,226 mg/kg ion method			
Com	ponents:						
• •	2, <b>3,5,6-tetrahydro-6-phe</b> e oral toxicity	enyli :	midazo[2,1-b]thia LD50 (Rat): 180 i	<b>izoletriylium phosphate:</b> mg/kg			
			LD50 (Mouse): 2	23 mg/kg			
			LD50 (Rabbit): 4	58 mg/kg			
			LD50 (Rat): 180 i	mg/kg			
			LD50 (Mouse): 2	23 mg/kg			
			LD50 (Rabbit): 4	58 mg/kg			





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Acute dermal toxicity : Remarks: No data available

## Skin corrosion/irritation

Not classified based on available information.

### **Components:**

(S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate:

Remarks : No data available

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

(S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate: Remarks : No data available

### Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

### **Respiratory sensitisation**

Not classified based on available information.

### Components:

 $(S) \hbox{-} 2, 3, 5, 6 \hbox{-} tetrahydro \hbox{-} 6 \hbox{-} phenylimidazo [2,1-b] thiazoletriylium phosphate:$ 

Remarks : No data available

### Germ cell mutagenicity

Not classified based on available information.

## Components:

### (S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative

Test Type: Chromosome aberration test in vitro Result: negative

## Carcinogenicity

Not classified based on available information.

### **Components:**

(S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate: Species : Mouse

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Application Route Exposure time NOAEL Remarks	:	Oral 2 Years 80 mg/kg body weight No significant adverse effects were reported
Species Application Route Exposure time NOAEL Remarks		Rat Oral 2 Years 40 mg/kg body weight No significant adverse effects were reported

## **Reproductive toxicity**

Suspected of damaging the unborn child.

### **Components:**

(S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate:				
Effects on fertility :	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Oral Result: No significant adverse effects were reported Test Type: Three-generation reproduction toxicity study Species: Rat			
	Application Route: Oral			
	Result: No significant adverse effects were reported			
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 20 mg/kg body weight Result: Fetotoxicity			
	Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 40 mg/kg body weight Result: Fetotoxicity			
Reproductive toxicity - As- : sessment	Some evidence of adverse effects on development, based on animal experiments.			

## STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

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## **Components:**

### (S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate:

Target Organs	:	Blood, Testis
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

### Repeated dose toxicity

### Components:

### (S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate:

Species NOAEL Application Route Exposure time Target Organs	: : : : : : : : : : : : : : : : : : : :	Rat 2.5 mg/kg Oral 18 Months Testis
Species LOAEL Application Route Exposure time Target Organs	: : : : : : : : : : : : : : : : : : : :	Dog 20 mg/kg Oral 18 Months Blood
Species LOAEL Application Route Exposure time	:	Dog 40 mg/kg Oral 3 Months

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

### **Components:**

Ingestion

### (S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate:

: Symptoms: Nausea, Vomiting, Headache, Dizziness, hypotension

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity

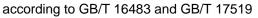
### **Components:**

### (S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazoletriylium phosphate:

:

Toxicity to fish	

LC50 (Oryzias latipes (Japanese medaka)): 37.3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203





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	ity to daphnia and other ic invertebrates	· :	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 64 mg/l 8 h
			Method: OECD T	est Guideline 202
<b>Persistence and degradabi</b> No data available		lity		
	<b>cumulative potential</b> ta available			
	i <b>ty in soil</b> Ita available			
••	<b>adverse effects</b> Ita available			
13. DISPO	SAL CONSIDERATIO	NS		
Dispo	osal methods			
Waste	e from residues	:		f waste into sewer. ordance with local regulations
Dispose of in accordance with local regulations. Contaminated packaging : Empty containers should be taken to an approved				

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

### **International Regulations**

UNRTDG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo	:	Not applicable
aircraft)		
Packing instruction (passen-	:	Not applicable
ger aircraft)		

### IMDG-Code

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UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **National Regulations**

#### GB 6944/12268

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Marine pollutant	:	no

### Special precautions for user

Not applicable

## **15. REGULATORY INFORMATION**

## National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

## **Regulation on the Administration of Precursor Chemicals**

Catalogue and Classification of Precursor Chemicals : Not listed

### Yangtze River Protection Law

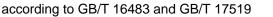
This product contains one or more prohibited dangerous chemicals for inland river transport, but none of the three GHS hazard categories is Category 1.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

## **16. OTHER INFORMATION**

Revision Date	:	2024/03/05
Further information		
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD





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compile the Safety Data Sheet eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Date format : yyyy/mm/dd

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### 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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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