

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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# **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifier

Trade name : Lamb Vaccine Selenised Formulation

Other means of identification : Lamb Vaccine Selenised (A001011)

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

Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable

# 1.3 Details of the supplier of the safety data sheet

Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

# **1.4 Emergency telephone number**

+1-908-423-6000

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Cat-	H412: Harmful to aquatic life with long lasting ef-
egory 3	fects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)					
Hazard statements	:	H412	Harmful to aquatic life with long lasting effects.		
Precautionary statements	:	<b>Preve</b> ı P273	<b>ntion:</b> Avoid release to the environment.		



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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Antigen	Not Assigned		>= 1 - < 10
Sodium selenate	13410-01-0 236-501-8 034-002-00-8	Acute Tox. 2; H300 Acute Tox. 2; H330 Skin Irrit. 2; H315 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity esti- mate Acute oral toxicity: 5 mg/kg	>= 0,1 - < 0,25
Thiomersal	54-64-8 200-210-4 080-004-00-7	Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 1; H310 Repr. 1B; H360 STOT RE 1; H372 (Central nervous system, Cardio-	>= 0,0025 - < 0,025

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			vascular system, Gastrointestinal tract, Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 specific concentra- tion limit STOT RE 2; H373 >= 0,1 %
			Acute toxicity esti- mate Acute oral toxicity: 10 mg/kg Acute inhalation toxicity (dust/mist): 0,1 mg/l Acute dermal toxici- ty: 10 mg/kg

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

# 4.1 Description of 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.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution.



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			Get medical atter	ntion if irritation develops and persists.		
If swallowed		:	Get medical atter	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
	i <b>mportant symptoms a</b> e known.	nd e	effects, both acute	e and delayed		
4.3 Indic	ation of any immediate	me	dical attention and	d special treatment needed		
Trea	atment	:	Treat symptomat	ically and supportively.		
SECTIC	N 5: Firefighting mea	sur	es			
5.1 Extir	guishing media					
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical			
Unsuitable extinguishing media		:	None known.			
5.2 Spec	ial hazards arising from	n the	e substance or mi	ixture		
Spe figh	cific hazards during fire- ing	:	Exposure to com	bustion products may be a hazard to health.		
Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides Sulphur oxides			
5.3 Advi	ce for firefighters					
Special protective equipment : In the event of fire, wear self-contained breathing a for firefighters Use personal protective equipment.						
Specific extinguishing meth- ods		:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do		

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment.
		Follow safe handling advice (see section 7) and personal pro-
		tective equipment recommendations (see section 8).



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6.2 Enviro	nmental precautions				
Environmental 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 oil barriers).</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>			
6.3 Method	Is and material for co	ntainment and clean	ing up		
Methods for cleaning up		For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-		

# 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Avoid inhalation of vapour or mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment
Hygiene measures	:	Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.



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7.2 Condit	7.2 Conditions for safe storage, including any incompatibilities								

# Requirements for storage<br/>areas and containers: Keep in properly labelled containers. Store in accordance with<br/>the particular national regulations.Advice on common storage: Do not store with the following product types:

Gases

Strong oxidizing agents

# 7.3 Specific end use(s)

Specific use(s)	: No data available
	. NU uala avaliable

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

# Occupational Exposure Limits

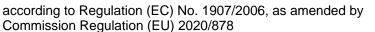
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Aluminium potas- sium sulfate do- decahydrate	7784-24-9	TWA	2 mg/m3 (Aluminium)	FOR-2011- 12-06-1358	
Sodium selenate	13410-01-0	TWA	0,05 mg/m3 (selenium)	FOR-2011- 12-06-1358	
	Further information: Substances c into touch with the eyes or airways tact with the skin				
		TWA	20 µg/m3 (OEB 3)	Internal	
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal	
Thiomersal	54-64-8	TWA	0,01 mg/m3	FOR-2011- 12-06-1358	
	into touch with	Image: Marcine Construction         Image: Marcine Construction <t< td=""></t<>			
		STEL	0,03 mg/m3 (Mercury)	FOR-2011- 12-06-1358	
	Further information: Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin, Chemicals that can be absorbed through the skin.				

# **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Thiomersal	54-64-8	Mercury (Mercury): 30 µg/g creatinine		AN 361
		(Urine)		

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Aluminium potassium	Workers	Inhalation	Long-term systemic	13,05 mg/m3



Consumers



bw/day

0.01028

mg/kg bw/day

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I	sulfate dodecahydrate				effects		
		Consumers	Ingestion		Long-term systemic effects	15,54 mg/kg bw/day	
	Sodium selenate	Workers	Inhalation	I	Long-term systemic effects	0,12 mg/m3	
		Workers	Skin conta	act	Long-term systemic effects	16,73 mg/kg bw/day	
		Consumers	Inhalation	l	Long-term systemic effects	0,036 mg/m3	
		Consumers	Skin conta	act	Long-term systemic	10,28 mg/kg	

# Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Ingestion

effects

effects

Long-term systemic

Substance name	Environmental Compartment	Value
Aluminium potassium sulfate dodecahydrate	Fresh water	0,112 mg/l
	Freshwater - intermittent	1,1 mg/l
	Marine water	0,011 mg/l
	Sewage treatment plant	63 mg/l
Sodium selenate	Fresh water	6,38 µg/l
	Freshwater - intermittent	6,38 µg/l
	Marine water	4,09 µg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	19,7 mg/kg dry weight (d.w.)
	Marine sediment	12,6 mg/kg dry weight (d.w.)
	Soil	0,47 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	2,39 mg/kg food

### 8.2 Exposure controls

# Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

### Personal protective equipment

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 aerosols.	,	
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Hand protection



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Ма	aterial	: Chemical-resis	tant gloves
	marks nd body protection	being performe suits) to avoid e	r laboratory coat. garments should be used based upon the task d (e.g., sleevelets, apron, gauntlets, disposable exposed skin surfaces. e degowning techniques to remove potentially
	ratory protection	: If adequate loca sure assessme ommended gui	al exhaust ventilation is not available or expo- nt demonstrates exposures outside the rec- delines, use respiratory protection. uld conform to NS EN 143

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state	:	Aqueous solution
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	6,0 - 7,0

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Viscosity Viscosity, kinematic		:	No data available	e			
Solubility(ies) Water solubility		: No data available					
Partition coefficient: n- octanol/water			: Not applicable				
V	Vapour pressure		: No data available				
F	Relative density		: 1,02				
C	Density		:	: No data available			
F	Relative vapour density Particle characteristics Particle size		:	No data available	e		
F			:	: Not applicable			
	-	formation		<b>.</b>			
E	Explosi	Ves	:	Not explosive			
C	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.		
E	Evapor	ation rate	:	No data availabl	e		
Ν	Molecu	lar weight	:	No data availabl	e		

# **SECTION 10: Stability and reactivity**

10.1	Reactivity	

Not classified as a reactivity hazard.

# 10.2 Chemical stability Stable under normal conditions. 10.3 Possibility of bazardous reactions

10.5 POSSIBILITY OF Hazardous re	actio	13
Hazardous reactions	:	Can react with strong oxidizing agents.

# 10.4 Conditions to avoid

Conditions to avoid	: None known.
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# 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

# **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.



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# **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of : Inhalation					
exposure		Skin contact Ingestion Eye contact			
<b>Acute toxicity</b> Not classified based on availa	ble	information.			
Product:					
Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method			
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method			
Components:					
Sodium selenate:					
Acute oral toxicity	:	LD50 (Rat): > 5 - 50 mg/kg Remarks: Based on data from similar materials			
Acute inhalation toxicity	:	LC50 (Rat): > 0,052 - 0,51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403			
Thiomersal:					
Acute oral toxicity	:	LD50 (Rat): 75 mg/kg			
		Acute toxicity estimate: 10 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.			
Acute inhalation toxicity	:	Acute toxicity estimate: 0,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Remarks: Based on national or regional regulation.			
Acute dermal toxicity	:	Acute toxicity estimate: 10 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.			

# Skin corrosion/irritation

Not classified based on available information.



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Com	oonents:						
	um selenate:						
Speci Metho	ies	:	reconstructed hu OECD Test Guid	man epidermis (RhE) eline 431			
Speci Metho		:	<ul><li>reconstructed human epidermis (RhE)</li><li>OECD Test Guideline 439</li></ul>				
Resu	lt	:	Skin irritation				
Not cl <u>Com</u>				olino 437			
Resu		:	No eye irritation				
Resp	iratory or skin sensit	isatio	n				
-	<b>sensitisation</b> lassified based on ava	ilable	information.				
-	iratory sensitisation lassified based on ava	ilable	information.				
	<b>n cell mutagenicity</b> lassified based on ava	ilable	information.				
Com	ponents:						
Sodiu	um selenate:						
Geno	toxicity in vitro	:	Method: OECD T Result: negative	rial reverse mutation assay (AMES) Fest Guideline 471 on data from similar materials			
Thior	nersal:						
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)			
Geno	toxicity in vivo	:	Test Type: Mami tion test (in vivo) Species: Mouse Application Route Result: negative	malian spermatogonial chromosome aberra- e: Ingestion			

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# Carcinogenicity

Not classified based on available information.

### Components:

### Thiomersal:

Species	:	Rat
Exposure time Result	:	1 Years
Result	:	negative

# Reproductive toxicity

Not classified based on available information.

# Components:

### Sodium selenate:

Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- ment	<ul> <li>Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials</li> </ul>
Thiomersal:	

# Effects on foetal development : Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

# STOT - single exposure

Not classified based on available information.

# STOT - repeated exposure

Not classified based on available information.

# Components:

### Sodium selenate:

I	Exposure routes Assessment	:	Ingestion
	Assessment	:	Shown to produce significant health effects in animals at con-
I			centrations of 10 mg/kg bw or less.

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Targe	<b>nersal:</b> et Organs ssment	tinal tract, Kic	us system, Cardio-vascular system, Gastrointes- Iney age to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
Sodiu	um selenate:		
		: Rat : 0,4 mg/kg : Ingestion : 13 Weeks	
Thior	nersal:		
Speci LOAE Applic Rema	L cation Route	: Rat : >= 0,5 mg/kg : Ingestion : Based on dat	a from similar materials
Aspir	ation toxicity		
	lassified based on avail		
11.2 Infor	mation on other haza	ds	
Endo	crino disrupting prop	ortios	

# Endocrine disrupting properties

:

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

### **Components:**

# Sodium selenate: Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1 - 10 mg/l Exposure time: 96 h Remarks: Based on data from similar materials Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Remarks: Based on data from similar materials

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Toxic	ity to algae/aquatic	:	ErC50 (Chlamydo Exposure time: 96	omonas reinhardtii (green algae)): 245 µg/l
plants	5		•	omonas reinhardtii (green algae)): 197 μg/l
M-Fao icity)	ctor (Acute aquatic tox-	:	1	
Toxic	ity to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 25 Species: Lepomis	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 28	
M-Fac toxicit	ctor (Chronic aquatic	:	1	
Thior	nersal:			
Toxic	ity to fish	:	Exposure time: 96	ticulata (guppy)): > 0,01 - 0,1 mg/l 5 h on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): > 0,01 - 0,1 mg/l 3 h on data from similar materials
Toxic plants	ity to algae/aquatic	:	- 0,1 mg/l Exposure time: 96	chneriella subcapitata (green algae)): > 0,01 5 h on data from similar materials
M-Fac icity)	ctor (Acute aquatic tox-	:	10	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC: > 0,001 - ( Exposure time: 21 Species: Daphnia Remarks: Based (	ld
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
12.2 Persi	stence and degradabil	ity		

No data available

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# 12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

# Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# **12.6 Endocrine disrupting properties**

# Product:

Assessment	: The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
	levels of 0.1% or higher.

# 12.7 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

# **SECTION 14: Transport information**

# 14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good

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14.2 UN pro ADN	oper shipping name	:				
		:				
			Not regulated as	a dangerous good		
ADR		:	Not regulated as	a dangerous good		
RID		:	Not regulated as	a dangerous good		
IMDG		:	: Not regulated as a dangerous good			
ΙΑΤΑ		:	Not regulated as	a dangerous good		
14.3 Transp	oort hazard class(es)					
ADN		:	Not regulated as	a dangerous good		
ADR		:	Not regulated as	a dangerous good		
RID		:	Not regulated as	a dangerous good		
IMDG		:	Not regulated as	a dangerous good		
ΙΑΤΑ		:	Not regulated as	a dangerous good		
14.4 Packin	g group					
ADN		:	Not regulated as	a dangerous good		
ADR		:	Not regulated as	a dangerous good		
RID		:	Not regulated as	a dangerous good		
IMDG		:	Not regulated as	a dangerous good		
IATA (C	Cargo)	:	Not regulated as	a dangerous good		
IATA (F	Passenger)	:	Not regulated as	a dangerous good		
	nmental hazards ulated as a dangerous	s go	od			
<b>14.6 Specia</b> Not app	I precautions for use	er				
14.7 Maritin	ne transport in bulk a	icco	ording to IMO inst	ruments		
Remark	<s< td=""><td>:</td><td>Not applicable for</td><td>product as supplied.</td></s<>	:	Not applicable for	product as supplied.		
SECTION '	15: Regulatory info	rma	ation			
ture REACH	, <b>health and environn</b> I - Restrictions on the rket and use of certain	mar	nufacture, placing c			

the market and use of certain dangerous substances, mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

Number on list 18: Thiomersal

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

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# Lamb Vaccine Selenised Formulation

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3.0	28.09.2024	11234818-00006	Date of first issue: 14.06.2023

		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

# Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

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

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

Other information		Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H300		Fatal if swallowed

H310	: Fatal in contact with skin.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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H315 H330 H360 H372		:	<ul> <li>Causes skin irritation.</li> <li>Fatal if inhaled.</li> <li>May damage fertility or the unborn child.</li> <li>Causes damage to organs through prolonged or repeated</li> </ul>				
H400 H410			exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.				
Full te	ext of other abbreviat	ions					
Aquati Repr. Skin Ir STOT AN 36	c Acute c Chronic rit. RE 1		<ul> <li>Acute toxicity</li> <li>Short-term (acute) aquatic hazard</li> <li>Long-term (chronic) aquatic hazard</li> <li>Reproductive toxicity</li> <li>Skin irritation</li> <li>Specific target organ toxicity - repeated exposure</li> <li>Norway. Directive on measures and limit values for physic and chemical factors in the work environment (biological l values).</li> </ul>				
	2011-12-06-1358 2011-12-06-1358 /	:	<ul><li>Norway. Occupational Exposure limits</li><li>Long term exposure limit</li></ul>				
FOR-2011-12-06-1358 / STEL		:	Short term exposure limit				

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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- United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

# Further information

Classification of the mixture		Classification presedures
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Classification of the mix	cture:	Classification procedure:
Aquatic Chronic 3	H412	Calculation method

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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.

NO / EN