

Footvax Formulation

Version 1.2	Revision Date: 04.03.2024		S Number: 330084-00003	Date of last issue: 10.01.2024 Date of first issue: 03.01.2024	
SECTION	ECTION 1. IDENTIFICATION				
Othe	Other means of identification		Coopers Ovilis F (51170) Footvax (A0019	Footvax Sheep and Lamb Footrot Vaccine 92)	
Manu	ufacturer or supplier's o	deta	ils		
Com	pany	:	MSD		
Addre	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP	
Telep	Telephone		908-740-4000		
Emer	gency telephone	:	1-908-423-6000		
E-ma	il address	:	EHSDATASTEV	VARD@msd.com	
Reco	ommended use of the c	hem	ical and restricti	ons on use	
	mmended use	:	Veterinary produ	uct	
Restr	rictions on use	:	Not applicable		
SECTION	2. HAZARDS IDENTIFI	<u>с л т</u>			

GHS Classification Aspiration hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 4
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H304 May be fatal if swallowed and enters airways. H413 May cause long lasting harmful effects to aquatic life.
Precautionary Statements	:	Prevention: P273 Avoid release to the environment.
		Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting.



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Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

· ·		
Chemical name	CAS-No.	Concentration (% w/w)
Paraffin oil	8012-95-1	>= 50 -< 70
Antigen	Not Assigned	>= 20 -< 30
Thiomersal	54-64-8	>= 0,0025 -< 0,025

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	May be fatal if swallowed and enters airways.
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).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire	:	Exposure to combustion products may be a hazard to health.



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Haz	fighting Hazardous combustion prod- ucts		Carbon oxides	
•	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to c so. Evacuate area.	
	Special protective equipment for fire-fighters			e, wear self-contained breathing apparatus. rective equipment.
SECTIO	N 6. ACCIDENTAL RELE	AS	E MEASURES	
tive	Personal precautions, protec- tive equipment and emer- gency procedures		Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
Env	Environmental precautions		Prevent spreading oil barriers). Retain and dispos	he environment. akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages

Personal precautions, protec- tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).	
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.	
Methods and materials for containment and cleaning up	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked materia can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.	S

SECTION 7. HANDLING AND STORAGE

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 vapor or mist.
Advice on sale handling	•	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 assessment



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	itions for safe storage	environment. Keep in properly Store locked up. Keep tightly clos Store in accorda	ed. Ince with the particular national regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Paraffin oil	8012-95-1	CMP (Mist)	5 mg/m³	AR OEL
		CMP - CPT (Mist)	10 mg/m³	AR OEL
		TWA (Inhalable particulate matter)	5 mg/m³	ACGIH
Thiomersal	54-64-8	CMP	0,01 mg/m ³ (Mercury)	AR OEL
	Further inform	ation: Skin		
		CMP - CPT	0,03 mg/m ³ (Mercury)	AR OEL
	Further inform	ation: Skin		
		TWA	0,01 mg/m ³ (Mercury)	ACGIH
		STEL	0,03 mg/m ³ (Mercury)	ACGIH

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	
Respiratory protection :	If adequate local exhaust ventilation is not available or

Respiratory protection	:	If adequate local exhaust ventilation is not available or
		exposure assessment demonstrates exposures outside the
		recommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapor type
Hand protection		



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Ma	aterial	: Chemical-resis	stant gloves
	emarks protection	If the work env mists or aeros Wear a facesh	le gloving. asses with side shields or goggles. ironment or activity involves dusty conditions, ols, wear the appropriate goggles. ield or other full face protection if there is a rect contact to the face with dusts, mists, or
Skin and body protection		Additional bod task being per disposable sui	or laboratory coat. y garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, ts) to avoid exposed skin surfaces. te degowning techniques to remove potentially clothing.
Hygie	ene measures	eye flushing sy working place. When using do Wash contami The effective c engineering co appropriate de industrial hygie	chemical is likely during typical use, provide ystems and safety showers close to the o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	oily, liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

:	Not classified as a reactivity hazard.
:	Stable under normal conditions.
:	Can react with strong oxidizing agents.
:	None known.
:	Oxidizing agents
:	No hazardous decomposition products are known.
	:

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.



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<u>Comp</u>	oonents:			
Paraf	fin oil:			
Acute	oral toxicity	:	LD50 (Rat): > 5.	000 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit): > Assessment: Th toxicity	• 2.000 mg/kg e substance or mixture has no acute derma
Thion	nersal:			
Acute	oral toxicity	:	LD50 (Rat): 75 n	ng/kg
			Method: Expert j	timate: 10 mg/kg udgment I on national or regional regulation.
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: 4 Test atmosphere Method: Expert j Remarks: Based	4 h e: dust/mist
Acute	dermal toxicity	:	Acute toxicity es Method: Expert j Remarks: Basec	
Skin	corrosion/irritation			
Not cl	assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
Paraf	fin oil:			
Speci Resul		:	Rabbit No skin irritation	
Serio	us eye damage/eye i	irritati	on	
Not cl	assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
Paraf	fin oil:			
Speci Resul		:	Rabbit No eye irritation	
Resp	iratory or skin sensi	tizatio	'n	
-	sensitization assified based on ava	ailable	information.	
-	iratory sensitization assified based on ava	ailable	information.	
Germ	cell mutagenicity	-		
	assified based on over	labla	information	

Not classified based on available information.



rsion 2	Revision Date: 04.03.2024	-	0S Number: 330084-00003	Date of last issue: 10.01.2024 Date of first issue: 03.01.2024
<u>Comp</u>	oonents:			
Thion	nersal:			
Genot	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Genot	toxicity in vivo	:	Test Type: Mamr tion test (in vivo) Species: Mouse Application Route Result: negative	nalian spermatogonial chromosome aberra- e: Ingestion
	nogenicity			
Not cl	assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
Thion	nersal:			
Specie		:	Rat	
Resul	sure time t	:	1 Years negative	
			C C	
-	oductive toxicity			
Not cl	assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
Thion	nersal:			
Effect	s on fetal development	:	Species: Rat	
			Application Route Result: positive	e: Ingestion
				on data from similar materials
Repro sessm	ductive toxicity - As- nent	:	0.00.00.00.000.000	f adverse effects on sexual function and development, based on animal experiments
sтот	-single exposure			
	assified based on availa	ble	information.	
	-repeated exposure assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
Thion	nersal:			
	t Organs	:		system, Cardio-vascular system, Gastrointes-
Asses	sment	:	tinal tract, Kidney Causes damage	to organs through prolonged or repeated



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Repe	ated dose toxicity			
<u>Com</u>	ponents:			
Paraf	fin oil:			
		:	Rat, female 161 mg/kg Ingestion 90 Days	
·	nersal:	•	50 Days	
Speci LOAE Applic Rema	EL cation Route	:	Rat >= 0,5 mg/kg Ingestion Based on data fro	om similar materials

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Paraffin oil:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Paraffin oil:

Falanni VII.		
Toxicity to fish	:	LL50 (Scophthalmus maximus (turbot)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Acartia tonsa (Calanoid copepod)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (Skeletonema costatum (marine diatom)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
		NOELR (Skeletonema costatum (marine diatom)): > 1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials



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Thior	nersal:			
Toxic	ity to fish	:	Exposure time: 9	eticulata (guppy)): > 0,01 - 0,1 mg/l 96 h I on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): > 0,01 - 0,1 mg/l l8 h l on data from similar materials
Toxic plants	ity to algae/aquatic	:	- 0,1 mg/l Exposure time: 9	rchneriella subcapitata (green algae)): > 0,0 96 h I on data from similar materials
	ctor (Acute aquatic tox-	:	10	
	ity to daphnia and other ic invertebrates (Chron- icity)		Exposure time: 2	sp. (Water flea)): > 0,001 - 0,01 mg/l 21 d I on data from similar materials
M-Fac toxicit	ctor (Chronic aquatic	:	10	
	stence and degradabil ata available	ity		
Bioad	cumulative potential			
<u>Comp</u>	oonents:			
Paraf	fin oil:			
	ion coefficient: n- ol/water	:	log Pow: > 4 Remarks: Calcu	ation
Mobi	lity in soil			
No da	ata available			
	r adverse effects ata available			

Disposal methods		
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.	
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG



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Not re	egulated as a dangerous	s go	bd					
	IATA-DGR Not regulated as a dangerous good							
	IMDG-Code Not regulated as a dangerous good							
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.								
-	Special precautions for user Not applicable							
ECTION	15. REGULATORY INF	OR	MATION					
Safet	ty, health and environn	nent	al regulations/le	gislation specific for the substance or				
mixtu	ure		-					
	Argentina. Carcinogenic Substances and Agents : Not applicable Registry.							
	Control of precursors and essential chemicals for the : Not applicable preparation of drugs.							
The i	ingredients of this proc	luct	are reported in t	he following inventories:				
AICS	5	:	not determined					
DSL		:	not determined					
IECS	SC	:	not determined					
ECTION	16. OTHER INFORMAT	ΓΙΟΙ	N					
	sion Date	:	04.03.2024					
Date	format	:	dd.mm.yyyy					
Furth	ner information							
comp	ces of key data used to bile the Material Safety Sheet	:		I data, data from raw material SDSs, OECD earch results and European Chemicals Agen uropa.eu/				
Full t	text of other abbreviation	ons						
ACGIH:USA. ACGIH Threshold Limit Values (TL)AR OEL:Argentina. Occupational Exposure Limits								
ACG AR C	IH / TWA IH / STEL DEL / CMP DEL / CMP - CPT		8-hour, time-weighted average Short-term exposure limit TLV (Threshold Limit Value) STEL (Short Term Limit Value)					
AIIC	- Australian Inventory of		dustrial Chemica	ls; ANTT - National Agency for Transport Festing of Materials; bw - Body weight; CMI				

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



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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

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 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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