

according to the Globally Harmonized System

Footvax Formulation

Vers 1.2	sion	Revision Date: 04.03.2024		S Number: 330092-00003	Date of last issue: 10.01.2024 Date of first issue: 03.01.2024			
1. P	1. PRODUCT AND COMPANY IDENTIFICATION							
	Product name Other means of identification		:	Footvax Formula	Footvax Formulation			
			:	Coopers Ovilis Footvax Sheep and Lamb Footrot Vaccine (51170) Footvax (A001992)				
	Manufacturer or supplier's d			ils				
	Compa	iny	:	MSD				
	Address		:	Briahnager - Off Wagholi - Pune -	Pune Nagar Road India 412 207			
	Teleph	one	:	+1-908-740-400)			
	Emerge	ency telephone number	• :	+1-908-423-6000)			
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com			
	Recom	nmended use of the ch	nem	ical and restriction	ons on use			
		mended use tions on use	:	Veterinary produ Not applicable	ct			

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

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.



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Preca	autionary statements	Prevention: P273 Avoid rel	ease to the environment.			
		immediately.	- SWALLOWED: Get emergency medical help induce vomiting.			
		Storage: P405 Store loc	ked up.			
		Disposal: P501 Dispose of contents/ container to an approved was disposal plant.				
	r hazards which do n known.	ot result in classifica	tion			
3. COMPO	OSITION/INFORMATIO	ON ON INGREDIENTS	3			
Subs	tance / Mixture	: Mixture				
Com	ponents					

Components	Components						
Chemical name	CAS-No.	Concentration (%					
Paraffin oil	8012-95-1	>= 50 - < 70					
Antigen	Not Assigned	>= 20 - < 30					
Thiomersal	54-64-8	>= 0.0025 - < 0.025					

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 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 centre 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.

5. FIREFIGHTING MEASURES



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Suita	Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire- fighting Hazardous combustion prod-		 Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known. 				
fightii			Exposure to combustion products may be a hazard to health Carbon oxides				
ods	ific extinguishing meth-	: Use extinguishing measures that are appropriate to loc cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is sa so. Evacuate area.					
	ial protective equipment efighters	:	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.				
6. ACCIDENTAL RELEASE MEASURES							
tive e	onal precautions, protec- equipment and emer- y procedures	- Follow safe handling advice (see section 7) and per- tective equipment recommendations (see section 8)		ing advice (see section 7) and personal pro-			
Envir	onmental precautions			akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages			
	ods and materials for ainment and cleaning up	:	For large spills, pument to keep mat be pumped, store Clean up remaining bent. Local or national uposal of this mate employed in the c mine which regular Sections 13 and 1	a absorbent material. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.			

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 vapour or mist.



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		Handle in acco practice, based sessment Keep contained	with eyes. In or repeated contact with skin. In ordance with good industrial hygiene and safety In on the results of the workplace exposure as-
Cor	ditions for safe storage	Store locked up Keep tightly clo	osed.
Mat	erials to avoid		lance with the particular national regulations. ith the following product types: g agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Paraffin oil	8012-95-1	TWA (Mist)	5 mg/m3	IN OEL
		STEL (Mist)	10 mg/m3	IN OEL
		TWA (Inhal- able particu-	5 mg/m3	ACGIH
Thiomersal	54-64-8	late matter) TWA	0.01 mg/m3	IN OEL
			(Mercury)	
			contribution to the oven	
		STEL	0.03 mg/m3 (Mercury)	IN OEL
	Further information: Potential contribution to the by the cutaneous route including mucous memb			
		TWA	0.01 mg/m3 (Mercury)	ACGIH
		STEL	0.03 mg/m3 (Mercury)	ACGIH

Components with workplace control parameters

:

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.

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Perse	onal protective equip	ment					
Fi	iratory protection Iter type I protection	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapour type 					
M	aterial	: Chemical-resistant gloves					
	emarks protection	If the work en mists or aeros Wear a faces	ble gloving. lasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a irect contact to the face with dusts, mists, or				
Skin	and body protection	Additional boo being perform suits) to avoid	or laboratory coat. dy garments should be used based upon the tas ed (e.g., sleevelets, apron, gauntlets, disposable exposed skin surfaces. te degowning techniques to remove potentially clothing.				
Hygie	ene measures	: If exposure to flushing syste place. When using d Wash contam The effective engineering c appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	oily, liquid
Colour	:	No data available
Odour	:	No data available
Odour 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

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	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	•
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	0			The cubeter of a	
	Oxidizii	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	e characteristics e size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION



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	Informa exposu	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
	Acute t	oxicity ssified based on availa	hla	information	
	Compo				
	Paraffii Acute o	n oil: oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
	Acute d	lermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute dermal
	Thiome	ersal:			
	Acute o	oral toxicity	:	LD50 (Rat): 75 mg	p/kg
				Acute toxicity estin Method: Expert ju Remarks: Based of	
	Acute ir	nhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based of	n dust/mist
	Acute d	lermal toxicity	:	Acute toxicity estin Method: Expert ju Remarks: Based o	
		orrosion/irritation ssified based on availa	ble	information.	
	Compo	onents:			
	Paraffi	n oil:			

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Paraffin oil:

Species	:	Rabbit
Result	:	No eye irritation

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Resp	piratory or skin sensit	tisation	
•	sensitisation	ilable information.	
-	biratory sensitisation classified based on ava	ilable information.	
	n cell mutagenicity classified based on ava	ilable information.	
Com	ponents:		
	mersal: ptoxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
Geno	otoxicity in vivo	: Test Type: Man tion test (in vivo Species: Mouse Application Rou Result: negative	ite: Ingestion
Carc	inogenicity		

Not classified based on available information.

Components:

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

Reproductive toxicity

Not classified based on available information.

Components:

Thiomersal:

Effects on foetal develop- : ment	Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
Reproductive toxicity - As- : sessment	Clear evidence of adverse effects on sexual function and fertil- ity, 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.



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Thic Targ	opponents: omersal: get Organs essment	:	tinal tract, Kidney	ystem, Cardio-vascular system, Gastrointes- to organs through prolonged or repeated
-	eated dose toxicity nponents:			
Spe LOA App		:	Rat, female 161 mg/kg Ingestion 90 Days	
Spe LOA App		: :	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.

12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Paraffin oil:		
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

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				Vater Accommodated Fraction on data from similar materials
			Exposure time: 72 Test substance: V	nema costatum (marine diatom)): > 1 mg/l 2 h Vater Accommodated Fraction on data from similar materials
Thiom	nersal:			
-	ty to fish	:	Exposure time: 96	ticulata (guppy)): > 0.01 - 0.1 mg/l 5 h on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: 48	nagna (Water flea)): > 0.01 - 0.1 mg/l 3 h on data from similar materials
Toxici plants	ty to algae/aquatic	:	- 0.1 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 0.01 S h on data from similar materials
M-Fac icity)	tor (Acute aquatic tox-	:	10	
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC: > 0.001 - (Exposure time: 21 Species: Daphnia Remarks: Based (ld
M-Fac toxicity	tor (Chronic aquatic y)	:	10	
	stence and degradabili ta available	ity		
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Partitio	f in oil: on coefficient: n- ol/water	:	log Pow: > 4 Remarks: Calcula	tion
	ity in soil ta available			
	adverse effects ta available			

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13. DISPOSAL CONSIDERATIONS

Disposal	methods
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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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

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	:	04.03.2024		
Further information				
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/		
Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH IN OEL	:	USA. ACGIH Threshold Limit Values (TLV) India. Permissible levels of certain chemical substances in		

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work environment.

ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
IN OEL / TWA	:	Time-Weighted Average Concentration (TWA) (8 hrs.)
IN OEL / STEL	:	Short-term exposure Limit STEL (15 min)

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

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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