

Versi 1.3	ion	Revision Date: 2023/12/04		S Number: 234651-00004	Date of last issue: 2023/09/30 Date of first issue: 2023/06/14	
1. PRODUCT AND COMPANY IDENTIFICATION						
I	Produc	t name	:	Lamb Vaccine S	elenised Formulation	
(Other n	neans of identification	:	Lamb Vaccine S	elenised (A001011)	
	Manufa Compa	acturer or supplier's c ny	letai :	i ls MSD		
,	Addres	S	:	126 E. Lincoln A Rahway, New Je	venue ersey U.S.A. 07065	
-	Teleph	one	:	908-740-4000		
I	Emerge	ency telephone numbe	r:	1-908-423-6000		
I	E-mail	address	:	EHSDATASTEW	/ARD@msd.com	
-		mended use of the cl				
		mended use tions on use	:	Veterinary produ Not applicable	ct	

2. HAZARDS IDENTIFICATION

GHS Classification

Long-term (chronic) aquatic hazard	: Category 3
GHS label elements	
Hazard pictograms	: None
Signal word	: None
Hazard statements	: H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	Prevention: P273 Avoid release to the environment.
	Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS



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Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Antigen	Not Assigned	< 10
Aluminium potassium sulfate dodecahydrate	7784-24-9	< 10
Sodium selenate	13410-01-0	>= 0.025 -< 0.25
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. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	None known.
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		

Suitable extinguishing media : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Unsuitable extinguishing : None known. media Specific hazards during fire-Exposure to combustion products may be a hazard to health. : fighting Hazardous combustion prod- : Carbon oxides Metal oxides ucts Sulphur oxides Specific extinguishing meth-Use extinguishing measures that are appropriate to local cir-: ods cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do SO.



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	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. stective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUI	RES	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe hand	otective equipment. Iling advice (see section 7) and personal pro- It recommendations (see section 8).
Envir	onmental precautions	:	Prevent further le Prevent spreadir barriers). Retain and dispo	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil use of contaminated wash water. should be advised if significant spillages ned.
	ods and materials for ainment and cleaning up	:	For large spills, p 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	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing 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- lations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HANDL	ING AND STORAGE			
Tech	nical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
Loca	I/Total ventilation	:		equate ventilation.

Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	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
		Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labelled containers.
-		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Aluminium potassium sulfate dodecahydrate	7784-24-9	NAB	2 mg/m3 (Aluminium)	ID OEL	
		o classify these r	fied as carcinogenic t naterials as carcinog		
Sodium selenate	13410-01-0	NAB	0.05 mg/m3 (selenium)	ID OEL	
		TWA	20 µg/m3 (OEB 3)	Internal	
		Wipe limit	200 µg/100 cm ²	Internal	
		TWA	0.2 mg/m3 (selenium)	ACGIH	
Thiomersal	54-64-8	NAB	0.01 mg/m3 (Mercury)	ID OEL	
	Further inform	ation: Skin			
		PSD	0.03 mg/m3 (Mercury)	ID OEL	
	Further information: Skin				
		TWA	0.01 mg/m3 (Mercury)	ACGIH	
		STEL	0.03 mg/m3 (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 con- tainment devices). Minimize open handling.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type :	Particulates type
Hand protection	
Material :	Chemical-resistant gloves
Remarks :	Consider double gloving.



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Eye protection		 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 aerosols. 				
Skin and body protection		Additional body task being perfo posable suits) to Use appropriate	: Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			
Hygiene measures		: If exposure to cl eye flushing sys ing place. When using do Wash contamina The effective op engineering con appropriate deg industrial hygier	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	6.0 - 7.0
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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: No data available
: No data available
: No data available
: 1.02
: No data available
: No data available
: Not applicable
: No data available
: No data available
: No data available
: Not explosive
: The substance or mixture is not classified as oxidizing.
: No data available
: 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

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

Acute toxicity

Not classified based on available information.



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Produ	uct:			
	oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmosphere Method: Calcula	4 h e: dust/mist
Comp	oonents:			
Alum	inium potassium su	fate de	odecahydrate:	
Acute	oral toxicity	:	LD50 (Mouse): : Remarks: Based	> 5,000 mg/kg d on data from similar materials
Sodiu	ım selenate:			
Acute	oral toxicity	:	LD50 (Rat): > 5 Remarks: Based	- 50 mg/kg d on data from similar materials
Acute	inhalation toxicity	:	LC50 (Rat): > 0. Exposure time: 4 Test atmosphere Method: OECD	4 h
Thion	nersal:			
Acute	oral toxicity	:	LD50 (Rat): 75 r	ng/kg
			Method: Expert	timate: 10 mg/kg judgement d on national or regional regulation.
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: 4 Test atmosphere Method: Expert Remarks: Based	4 h e: dust/mist
Acute	dermal toxicity	:	Method: Expert	timate: 10 mg/kg judgement d on national or regional regulation.
-	corrosion/irritation assified based on ava			

Components:

Aluminium potassium sulfate dodecahydrate:

Result	:	Mouse No skin irritation Based on data from similar materials
Remarks	:	Based on data from similar materials



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Sodium selenate:	
Species Method	reconstructed human epidermis (RhE)OECD Test Guideline 431
Species Method	reconstructed human epidermis (RhE)OECD Test Guideline 439
Result	: Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Aluminium potassium sulfate dodecahydrate:

Species	:	Rabbit
Result	:	No eye irritation
Remarks	:	Based on data from similar materials

Sodium selenate:

Species Method	-	Bovine cornea OECD Test Guideline 437
Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Aluminium potassium sulfate dodecahydrate:

:	Draize Test
:	Skin contact
:	Rabbit
:	negative
:	Based on data from similar materials
	: : :

Germ cell mutagenicity

Not classified based on available information.

Components:

Aluminium potassium sulfate dodecahydrate:

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



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			Result: negative	
Sodiu	um selenate:			
Geno	toxicity in vitro	:	Method: OECD Result: negative	erial reverse mutation assay (AMES) Test Guideline 471 d on data from similar materials
Thion	nersal:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	Test Type: Mam tion test (in vivo) Species: Mouse Application Rou Result: negative	te: Ingestion
Not cl	nogenicity lassified based on avai conents:	lable	information.	
Not cl <u>Com</u> r	lassified based on avai	lable	information.	
Not cl <u>Comp</u> Thion Speci	lassified based on avai <u> conents:</u> nersal: es sure time	ilable : :	information. Rat 1 Years negative	
Not cl Comp Thion Speci Expos Resul	lassified based on avai <u> conents:</u> nersal: es sure time	:	Rat 1 Years negative	
Not cl Comp Thion Speci Expos Resul Resul	lassified based on avai <u>conents:</u> nersal: es sure time It coductive toxicity	:	Rat 1 Years negative	
Not cl Comp Thion Speci Expos Resul Resul Not cl Comp	lassified based on avai <u>conents:</u> nersal: es sure time It coductive toxicity lassified based on avai	lable	Rat 1 Years negative information.	
Not cl Comp Thion Speci Expos Resul Repro Not cl <u>Comp</u>	lassified based on avai <u>conents:</u> nersal: es sure time It coductive toxicity lassified based on avai <u>conents:</u>	lable	Rat 1 Years negative information. Iodecahydrate: Test Type: Two- Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 416

Sodium selenate:



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Effect	s on fertility	Species: Rat Application Ro Result: negati	vo-generation reproduction toxicity study oute: Ingestion ve sed on data from similar materials
Effects on foetal develop- ment		Species: Mou Application Ro Result: negati	oute: Ingestion
Thior	nersal:		
Effect ment	s on foetal develop-	Result: positiv	oute: Ingestion re sed on data from similar materials
Repro sessn	oductive toxicity - As- nent		e of adverse effects on sexual function and fer development, based on animal experiments
	- single exposure lassified based on avai	able information.	
STOT	- repeated exposure		
Not cl	assified based on avai	able information.	
<u>Comp</u>	oonents:		
	um selenate:		
	sure routes ssment		duce significant health effects in animals at cor 10 mg/kg bw or less.
Thior	nersal:		
Targe	et Organs		us system, Cardio-vascular system, Gastrointe
Asses	ssment	tinal tract, Kid : Causes dama exposure.	ney ge to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
Alum	inium potassium sulf	ate dodecahydrate	:
	EL cation Route sure time	: Mouse : 15,000 mg/kg : Ingestion : 5 Weeks : Directive 67/5	48/EEC, Annex, B.33



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Sodiu	um selenate:			
Spec	es	:	Rat	
NOA		:	0.4 mg/kg	
	cation Route sure time	:	Ingestion 13 Weeks	
Thior	nersal:			
Spec LOAE		:	Rat >= 0.5 mg/kg	
-	cation Route	÷	Ingestion	
Rema		:		rom similar materials
-	ration toxicity lassified based on availa	able	information.	
2. ECOL	OGICAL INFORMATIO	N		
Ecote	oxicity			
	oxicity conents:			
<u>Com</u>	ponents:	ite c	lodecahvdrate:	
<u>Com</u> Alum	-	nte c :	LC50 (Pimephal 10,000 mg/l Exposure time: §	es promelas (fathead minnow)): > 1,000 - < 96 h I on data from similar materials
<u>Com</u> Alum Toxic	oonents: inium potassium sulfa ity to fish	:	LC50 (Pimephal 10,000 mg/l Exposure time: §	96 h
<u>Com</u> Alum Toxic	oonents: inium potassium sulfa	:	LC50 (Pimephal 10,000 mg/l Exposure time: § Remarks: Based	96 h
Com Alum Toxic Ecoto Chror	oonents: inium potassium sulfa ity to fish oxicology Assessment hic aquatic toxicity	:	LC50 (Pimephal 10,000 mg/l Exposure time: § Remarks: Based	96 h I on data from similar materials
Com Alum Toxic Ecote Chron	oonents: inium potassium sulfa ity to fish oxicology Assessment hic aquatic toxicity um selenate:	: t :	LC50 (Pimephal 10,000 mg/l Exposure time: § Remarks: Based No toxicity at the	96 h I on data from similar materials e limit of solubility
Com Alum Toxic Ecote Chron	oonents: inium potassium sulfa ity to fish oxicology Assessment hic aquatic toxicity	: t :	LC50 (Pimephal 10,000 mg/l Exposure time: 9 Remarks: Based No toxicity at the LC50 (Pimephal	96 h I on data from similar materials e limit of solubility es promelas (fathead minnow)): > 1 - 10 mg/
Com Alum Toxic Ecote Chron	oonents: inium potassium sulfa ity to fish oxicology Assessment hic aquatic toxicity um selenate:	: t :	LC50 (Pimephal 10,000 mg/l Exposure time: 9 Remarks: Based No toxicity at the LC50 (Pimephal Exposure time: 9	96 h I on data from similar materials e limit of solubility es promelas (fathead minnow)): > 1 - 10 mg/
Com Alum Toxic Ecoto Chron Sodiu Toxic	oonents: inium potassium sulfa ity to fish oxicology Assessment nic aquatic toxicity um selenate: ity to fish	:	LC50 (Pimephal 10,000 mg/l Exposure time: § Remarks: Based No toxicity at the LC50 (Pimephal Exposure time: § Remarks: Based	96 h 1 on data from similar materials e limit of solubility es promelas (fathead minnow)): > 1 - 10 mg/ 96 h 1 on data from similar materials
Com Alum Toxic Ecote Chron Sodie Toxic	oonents: inium potassium sulfa ity to fish oxicology Assessment hic aquatic toxicity um selenate:	:	LC50 (Pimephal 10,000 mg/l Exposure time: S Remarks: Based No toxicity at the LC50 (Pimephal Exposure time: S Remarks: Based EC50 (Daphnia Exposure time: 4	96 h d on data from similar materials e limit of solubility es promelas (fathead minnow)): > 1 - 10 mg/ 96 h d on data from similar materials magna (Water flea)): > 1 - 10 mg/l 18 h
Com Alum Toxic Ecote Chron Sodie Toxic	 ponents: inium potassium sulfative to fish pxicology Assessment in aquatic toxicity um selenate: ity to fish ity to fish 	:	LC50 (Pimephal 10,000 mg/l Exposure time: S Remarks: Based No toxicity at the LC50 (Pimephal Exposure time: S Remarks: Based EC50 (Daphnia Exposure time: 4	96 h d on data from similar materials e limit of solubility es promelas (fathead minnow)): > 1 - 10 mg/ 96 h d on data from similar materials magna (Water flea)): > 1 - 10 mg/l
Com Alum Toxic Ecote Chron Sodiu Toxic Toxic	 ponents: inium potassium sulfa ity to fish pxicology Assessment nic aquatic toxicity um selenate: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic 	:	LC50 (Pimephal 10,000 mg/l Exposure time: § Remarks: Based No toxicity at the LC50 (Pimephal Exposure time: § Remarks: Based EC50 (Daphnia Exposure time: 4 Remarks: Based	26 h d on data from similar materials e limit of solubility es promelas (fathead minnow)): > 1 - 10 mg/ 26 h d on data from similar materials magna (Water flea)): > 1 - 10 mg/l 48 h d on data from similar materials domonas reinhardtii (green algae)): 245 μg/l
Com Alum Toxic Ecote Chron Sodiu Toxic aquat	 ponents: inium potassium sulfa ity to fish pxicology Assessment nic aquatic toxicity um selenate: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic 	:	LC50 (Pimephal 10,000 mg/l Exposure time: S Remarks: Based No toxicity at the LC50 (Pimephal Exposure time: S Remarks: Based EC50 (Daphnia Exposure time: 4 Remarks: Based ErC50 (Chlamyo Exposure time: 5	26 h d on data from similar materials e limit of solubility es promelas (fathead minnow)): > 1 - 10 mg/ 26 h d on data from similar materials magna (Water flea)): > 1 - 10 mg/l 48 h d on data from similar materials domonas reinhardtii (green algae)): 245 μg/l 26 h



ersion .3	Revision Date: 2023/12/04		9S Number: 234651-00004	Date of last issue: 2023/09/30 Date of first issue: 2023/06/14		
Toxicit icity)	y to fish (Chronic tox-	:	mg/l Exposure time: 2	macrochirus (Bluegill sunfish)): > 0.01 - 0.1 58 d on data from similar materials		
aquatio	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		NOEC: > 0.1 - 1 mg/l Exposure time: 28 d Remarks: Based on data from similar materials			
	tor (Chronic aquatic	:	1			
toxicity Toxicity) y to microorganisms	icroorganisms : I		EC10 (activated sludge): 590 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Thiom	ersal:					
Toxicit	y to fish	:	Exposure time: 9	ticulata (guppy)): > 0.01 - 0.1 mg/l 6 h on data from similar materials		
	y to daphnia and other c invertebrates	:	 EC50 (Daphnia magna (Water flea)): > 0.01 - 0.1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials 			
Toxicit plants	y to algae/aquatic	 EC50 (Pseudokirchneriella subcapitata (green alga - 0.1 mg/l Exposure time: 96 h Remarks: Based on data from similar materials 		6 h		
	tor (Acute aquatic tox-	:	10			
	y to daphnia and other c invertebrates (Chron- ity)	:	Exposure time: 2	sp. (water flea)): > 0.001 - 0.01 mg/l 1 d on data from similar materials		
M-Fact toxicity	tor (Chronic aquatic	:	10			
	tence and degradabili a available	ty				
	cumulative potential a available					
	ty in soil a available					
	adverse effects a available					



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13. DISPOSAL CONSIDERATIONS

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 han- 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
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		
UN number	•	Not applicable

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	:	Not applicable

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



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15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1 Hazardous to Health	996 on the Safeguarding of Substances
Hazardous substances that must be registered	: Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Aluminium potassium sulfate dodecahydrate
Prohibited substances	:	Not applicable

Restricted substances	:	Not applicable
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Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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	:	2023/12/04		
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 Agen- cy, http://echa.europa.eu/		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations				



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ACGI	Н	: USA. ACGIH Th	reshold Limit Values (TLV)

ACGIH / TWA:8-hour, time-weighted averageACGIH / STEL:Short-term exposure limitID OEL / NAB:Long term exposure limitID OEL / PSD:Short term exposure limit	ID OEL : Indonesia. Occupational Exposure L
	ACGIH / STEL : Short-term exposure limit ID OEL / NAB : Long term exposure limit

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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