



Vers 1.5	ion	Revision Date: 28.09.2024		S Number: 234653-00006	Date of last issue: 06.04.2024 Date of first issue: 14.06.2023
SECTION 1: IDENTIFICATION Product name		:	Lamb Vaccine So	elenised Formulation	
	Other r	neans of identification	:	Lamb Vaccine S	elenised (A001011)
	Manufa	acturer or supplier's d	leta	ils	
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)
	Addres	S	:	91-105 Harpin Si Bendigo 3550, \	
	Teleph	one	:	1 800 033 461	
	Emerge	ency telephone number	r :	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the ch	hem	ical and restriction	ons on use
		mended use	:	Veterinary produ	ct

Restrictions on use : Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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)
Antigen	Not Assigned	< 10
Aluminium potassium sulfate dodecahydrate	7784-24-9	< 10
Sodium selenate	13410-01-0	< 1

SECTION 4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical ad-



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	In case If swalld Most im and effe delayed Protecti	of skin contact of eye contact owed nportant symptoms ects, both acute and	: : : : :	advice. If inhaled, remove Get medical atten Wash with water a Get medical atten Flush eyes with w Get medical atten If swallowed, DO Get medical atten Rinse mouth thor None known.	tion if symptoms occur. and soap as a precaution. tion if symptoms occur. vater as a precaution. tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur.
		. FIREFIGHTING MEA	SU		
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical	
	Unsuitable extinguishing media		:	None known.	
	Specific fighting	c hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Sulphur oxides	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firefi	protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).



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Envir	onmental precautions	:	Prevent spreadin barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or o se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	For large spills, p ment to keep man be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can e recovered material in appropriate container ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
SECTION	7. HANDLING AND ST	OR	AGE	
Tech	nical measures	:		measures under EXPOSURE

rechnical measures	·	CONTROLS/PERSONAL PROTECTION section.
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.
Hygiene measures	:	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 contaminated 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.
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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SECTION 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	TWA	2 mg/m3 (Aluminium)	AU OEL
Sodium selenate	13410-01-0	TWA	0.1 mg/m3 (selenium)	AU OEL
		TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm ²	Internal
		TWA	0.2 mg/m3 (selenium)	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 equipme	nt	
	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or
Skin and body protection	:	aerosols. 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	A		_	A anno anno a chuitiana	
	Appear	ance	:	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 b range	oiling point and boiling	:	No data available	
	Flash p	point	:	No data available)
	Evapor	ation rate	:	No data available)
	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)
	Relativ	e vapour density	:	No data available)
	Relative	e density	:	1.02	
	Density	/	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	



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Oxidizing properties	: The substance	e or mixture is not classified as oxidizing.					
Molecular weight	: No data available						
Particle characteristics Particle size	: Not applicable						
ECTION 10. STABILITY AND RE	ACTIVITY						
Reactivity Chemical stability Possibility of hazardous reac- tions Conditions to avoid Incompatible materials Hazardous decomposition products	 Stable under r Can react with None known. Oxidizing ager 	as a reactivity hazard. hormal conditions. h strong oxidizing agents. hts decomposition products are known.					
ECTION 11. TOXICOLOGICAL II	NFORMATION						
Exposure routes	: Inhalation Skin contact Ingestion Eye contact						
Acute toxicity Not classified based on availal	ole information.						
Product:							
Acute oral toxicity	: Acute toxicity e Method: Calcul	estimate: > 2,000 mg/kg lation method					
		estimate: > 5 mg/l					
Acute inhalation toxicity	Exposure time: Test atmosphe Method: Calcul	re: dust/mist					
Acute inhalation toxicity	Test atmosphe	re: dust/mist					
·	Test atmosphe Method: Calcul	re: dust/mist					
<u>Components:</u>	Test atmosphe Method: Calcul e dodecahydrate: : LD50 (Mouse):	re: dust/mist lation method					
<u>Components:</u> Aluminium potassium sulfat	Test atmosphe Method: Calcul e dodecahydrate: : LD50 (Mouse):	re: dust/mist lation method > 5,000 mg/kg					
<u>Components:</u> Aluminium potassium sulfat Acute oral toxicity	Test atmosphe Method: Calcul e dodecahydrate: : LD50 (Mouse): Remarks: Base : LD50 (Rat): > 5	re: dust/mist lation method > 5,000 mg/kg ed on data from similar materials					



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Skin corrosion/irritation

Not classified based on available information.

Components:

Aluminium potassium sulfate dodecahydrate:

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:

Test Type	:	Draize Test
Exposure routes	:	Skin contact
Species	:	Rabbit



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Resu Rema		: negative : Based on data from similar materials	
	nic toxicity n cell mutagenicity		
	lassified based on ava	able information.	
Com	ponents:		
	ninium potassium sul	-	
Genc	otoxicity in vitro	: Test Type: Bacterial reverse mutation assa Result: negative	ıy (AMES)
Sodi	um selenate:		
Genc	otoxicity in vitro	: Test Type: Bacterial reverse mutation assa Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar mate	
Repr Not c	lassified based on ava oductive toxicity lassified based on ava ponents:		
Alum	ninium potassium sul	ate dodecahydrate:	
Effec	ts on fertility	 Test Type: Two-generation reproduction to Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar mate 	
Effec ment	ts on foetal develop-	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OPPTS 870.3700 Result: negative Remarks: Based on data from similar mate	erials
Sodi	um selenate:		
Effec	ts on fertility	 Test Type: Two-generation reproduction to Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar mate 	



Effects on foetal develop: : Test Type: Embryo-foetal development ment Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials STOT - single exposure Not classified based on available information. STOT - repeated exposure Not classified based on available information. Softim selenate: Exposure routes : Repeated dose toxicity Components: Species : Muminium potassium sulfate dodecahydrate: Species : Mouse NOAEL : Method : Sodium selenate: Species : Species : Method : Species : Method : Directive 67/548/EEC, Annex, B.33	ersion .5	Revision Date: 28.09.2024	SDS Number: 11234653-00006	Date of last issue: 06.04.2024 Date of first issue: 14.06.2023
Not classified based on available information. STOT - repeated exposure Not classified based on available information. Components: Sodium selenate: Exposure routes : Ingestion Assessment : Shown to produce significant health effects in animals centrations of 10 mg/kg bw or less. Repeated dose toxicity Components: Aluminium potassium sulfate dodecahydrate: Species : NOAEL : 15,000 mg/kg Application Route : 5 Weeks Method : Directive 67/548/EEC, Annex, B.33		ts on foetal develop-	Species: Mouse Application Rou Result: negative	e ite: Ingestion
Not classified based on available information. Components: Sodium selenate: Exposure routes : Ingestion Assessment : Shown to produce significant health effects in animals centrations of 10 mg/kg bw or less. Repeated dose toxicity Components: Aluminium potassium sulfate dodecahydrate: Species : Mouse NOAEL : 15,000 mg/kg Application Route : Ingestion Exposure time : 5 Weeks Method : Directive 67/548/EEC, Annex, B.33 Sodium selenate: : 0.4 mg/kg Application Route : Ingestion Exposing time : 0.4 mg/kg Application Route : Ingestion		• •	lable information.	
Sodium selenate: Exposure routes : Ingestion Assessment : Shown to produce significant health effects in animals centrations of 10 mg/kg bw or less. Repeated dose toxicity Components: Aluminium potassium sulfate dodecahydrate: Species : Mouse NOAEL : 11995tion Exposure time : 5 Weeks Method : Directive 67/548/EEC, Annex, B.33		• •		
Exposure routes : Ingestion Assessment : Shown to produce significant health effects in animals centrations of 10 mg/kg bw or less. Repeated dose toxicity Components: Aluminium potassium sulfate dodecahydrate: Species : Mouse NOAEL : 15,000 mg/kg Application Route : Stoken Sector : Method : Directive 67/548/EEC, Annex, B.33	Com	oonents:		
Components: Aluminium potassium sulfate dodecahydrate: Species : Mouse NOAEL : 15,000 mg/kg Application Route : Ingestion Exposure time : 5 Weeks Method : Directive 67/548/EEC, Annex, B.33 Sodium selenate: : Rat NOAEL : 0.4 mg/kg Application Route : Ingestion	Expos	sure routes	: Shown to produ	•
Aluminium potassium sulfate dodecahydrate: Species : Mouse NOAEL : 15,000 mg/kg Application Route : Ingestion Exposure time : 5 Weeks Method : Directive 67/548/EEC, Annex, B.33 Sodium selenate: : Rat NOAEL : 0.4 mg/kg Application Route : Ingestion	Repe	ated dose toxicity		
Species : Mouse NOAEL : 15,000 mg/kg Application Route : Ingestion Exposure time : 5 Weeks Method : Directive 67/548/EEC, Annex, B.33 Sodium selenate: Species : Rat NOAEL : 0.4 mg/kg Application Route : Ingestion	<u>Com</u>	oonents:		
NOAEL : 15,000 mg/kg Application Route : Ingestion Exposure time : 5 Weeks Method : Directive 67/548/EEC, Annex, B.33 Sodium selenate: Species : Rat NOAEL : 0.4 mg/kg Application Route : Ingestion	Alum	inium potassium sulf	ate dodecahydrate:	
Species:RatNOAEL:0.4 mg/kgApplication Route:Ingestion	NOAE Applic Expos	EL cation Route sure time	: 15,000 mg/kg : Ingestion : 5 Weeks	3/EEC, Annex, B.33
NOAEL : 0.4 mg/kg Application Route : Ingestion	Sodiu	um selenate:		
	NOAE Applic	EL cation Route	: 0.4 mg/kg : Ingestion	
Aspiration toxicity	Aspir	ation toxicity		

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Aluminium potassium sulfate dodecahydrate:

Toxicity to fish:LC50 (Pimephales promelas (fathead minnow)): > 1,000 - <</th>10,000 mg/lExposure time: 96 hRemarks: Based on data from similar materials



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Ecoto	oxicology Assessmen	t		
Chron	ic aquatic toxicity	:	No toxicity at the	e limit of solubility
Sodiu	ım selenate:			
Toxici	ty to fish	:	Exposure time:	les promelas (fathead minnow)): > 1 - 10 m 96 h d on data from similar materials
	ty to daphnia and other ic invertebrates	· :	Exposure time:	magna (Water flea)): > 1 - 10 mg/l 48 h d on data from similar materials
Toxici plants	ty to algae/aquatic	:	ErC50 (Chlamy Exposure time:	domonas reinhardtii (green algae)): 245 µg/ 96 h
			NOEC (Chlamy Exposure time:	domonas reinhardtii (green algae)): 197 μg/ 96 h
Toxici icity)	ty to fish (Chronic tox-	:	mg/l Exposure time:	s macrochirus (Bluegill sunfish)): > 0.01 - 0. 258 d d on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)		NOEC: > 0.1 - 1 Exposure time: Remarks: Base	
Toxici	ty to microorganisms	:	EC10 (activated sludge): 590 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
	stence and degradabi ta available	lity		
	cumulative potential ta available			
	ity in soil ta available			
	adverse effects ta 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 han-



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

SECTION 14. TRANSPORT INFORMATION

International Regulations

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

National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable



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SECTION 15. REGULATORY INFORMATION

Safety, health and environmen ture	tal regulations/legislatio	on specific for the substance or mix-			
Therapeutic Goods (Poisons : Standard) Instrument	No poison schedule number allocated (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)				
Prohibition/Licensing Requireme		There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.			
The components of this product are reported in the following inventories:					
AICS :	not determined				
DSL :	not determined				

: not determined

IECSC

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information						
Revision Date Sources of key data used to compile the Safety Data Sheet	:	28.09.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/				
Date format		dd.mm.yyyy				
Full text of other abbreviations						
ACGIH AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.				
ACGIH / TWA AU OEL / TWA	:	8-hour, time-weighted average Exposure standard - time weighted average				

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 Chemi-



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cal 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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