

according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
8.2	09/30/2023	4698084-00017	Date of first issue: 07/29/2019

SECTION 1. IDENTIFICATION

Product name	:	Ivermectin (3.5%) Formulation					
Manufacturer or supplier's details							
Company name of supplier Address	:	Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065					
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com					
Recommended use of the chemical and restrictions on use							
Recommended use Restrictions on use	:	Veterinary product Not applicable					

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Acute toxicity (Oral)	:	Category 4		
Specific target organ toxicity - single exposure (Oral)	:	Category 1 (Central nervous system)		
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Central nervous system)		
GHS label elements				
Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H302 Harmful if swallowed. H370 Causes damage to organs (Central nervous system) if swallowed. H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.		
Precautionary Statements	:	Prevention: P260 Do not breathe vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.		
		Response: P301 + P312 + P330 IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth. P307 + P311 IF exposed: Call a doctor.		





Ivermectin (3.5%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
8.2	09/30/2023	4698084-00017	Date of first issue: 07/29/2019

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)
Ivermectin	70288-86-7	3.31
Aluminum tristearate	637-12-7	1.42

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 unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. Causes damage to organs if swallowed. Causes damage to organs through prolonged or repeated exposure if swallowed.
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



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Vers 8.2	sion	Revision Date: 09/30/2023		98084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
	Unsuita media	able extinguishing	:	None known.	
Specific hazards during fire fighting		:	Exposure to comb	oustion products may be a hazard to health.	
	Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides	
Specific extinguishing meth- ods		:	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	
		l protective equipment fighters	:	In the event of fire	e, wear self-contained breathing apparatus. ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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 material 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.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe vapors.
	Do not swallow.
	Avoid contact with eyes.
	Avoid prolonged or repeated contact with skin.



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Version 8.2	Revision Date: 09/30/2023	SDS Number: 4698084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019			
		Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.				
Conditions for safe storage		: Keep in properly labeled containers. Store locked up.				
Materials to avoid		: Do not store with Strong oxidizing	stances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ivermectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal
	Further inform	nation: Skin		
		Wipe limit	300 µg/100 cm2	Internal
Aluminum tristearate	637-12-7	TWA (Inhal- able particu- late matter)	10 mg/m³	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m³	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	1 mg/m³ (Aluminum)	ACGIH

Ingredients 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.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to





Ivermectin (3.5%) Formulation

Version 8.2	Revision Date: 09/30/2023		lumber: 84-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
Hand	protection	co un Fo us by ha su rel cir	ncentrations ar known, approp llow OSHA res e NIOSH/MSH, air purifying re zardous chemi pplied respirato ease, exposure	posures below recommended limits. Where e above recommended limits or are riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any cal is limited. Use a positive pressure air or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide on.
M	aterial	: Ch	emical-resistar	nt gloves
	emarks protection	: Wo If t mi Wo po	he work enviro sts or aerosols ear a faceshield	gloving. ses with side shields or goggles. ment or activity involves dusty conditions, wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or
Skin a	and body protection	Ad tas dis Us	ditional body g k being perforr posable suits)	aboratory coat. arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially hing.
Hygie	ene measures	: If e ey wc Wi Wi Ch en ap	exposure to che e flushing syste orking place. nen using do no ash contaminat e effective ope gineering contr propriate dego	emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	gel
Color	:	off-white
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	338 °F / 170 °C



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Versi 8.2		Revision Date: 09/30/2023		S Number: 98084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
	range				
	Flash po	pint	:	459.0 °F / 237.2	°C
	Evapora	tion rate	:	No data available	9
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	No data available	9
		xplosion limit / Upper vility limit	:	No data available	9
		xplosion limit / Lower bility limit	:	No data available	9
	Vapor pi	ressure	:	No data available	9
	Relative	vapor density	:	No data available	9
	Relative	density	:	0.93 - 0.95	
	Density		:	No data available	9
	Solubility Wate	y(ies) er solubility	:	practically insolu	ble
		coefficient: n-	:	Not applicable	
	octanol/ Autoigni	water tion temperature	:	No data available	9
	Decomp	osition temperature	:	No data available	9
	Viscosity Visco	y osity, dynamic	:	382 - 384 mPa.s	(77 °F / 25 °C)
	Visco	osity, kinematic	:	No data available	9
	Explosiv	e properties	:	Not explosive	
	Oxidizin	g properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecula	ar weight	:	No data available	9
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Version 8.2	Revision Date: 09/30/2023	SDS Number: 4698084-00017		Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
Possi tions	bility of hazardous reac-	:	Can react with st	rong oxidizing agents.
Incom Hazai	Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous de	ecomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely rout Inhalation Skin contact Ingestion Eye contact	es of	exposure
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,511 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
Ivermectin:		
Acute oral toxicity	:	LD50 (Rat): 50 mg/kg
		LD50 (Mouse): 25 mg/kg
		LD50 (Monkey): > 24 mg/kg Target Organs: Central nervous system Symptoms: Vomiting, Dilatation of the pupil Remarks: No mortality observed at this dose.
Acute inhalation toxicity	:	LC50 (Rat): 5.11 mg/l Exposure time: 1 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): 406 mg/kg
		LD50 (Rat): > 660 mg/kg
Aluminum tristearate:		
Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	:	LC50 (Rat): > 5.15 mg/l Exposure time: 4 h Test atmosphere: dust/mist

according to the OSHA Hazard Communication Standard



Ivermectin (3.5%) Formulation

Revision Date: 09/30/2023			Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
			Test Guideline 403 ed on data from similar materials
corrosion/irritation	- 11 - 1 - 1 - 1	- f f	
	allable I	niormation.	
nectin:			
ies It			n
inum tristearate:			
ies od arks	:	OECD Test Gu	uman epidermis (RhE) ideline 439 from similar materials
lt	:	No skin irritatio	n
ponents:			
nectin:			
ies It	-		on
inum tristearate:			
ies			
lt od			
arks			from similar materials
iratory or skin sens	itizatior	ı	
sensitization lassified based on av	ailable i	nformation.	
-		nformation.	
ponents:			
nectin:			
es of exposure			
ies		Humans	
	09/30/2023	09/30/2023 469 corrosion/irritation assified based on available i assified based on available i ionents: eectin: : ess : inum tristearate: : ess : inum tristearate: : ess : od : us eye damage/eye irritation assified based on available i onents: eectin: ess : inum tristearate: ess : inum tristearate: essified based on available i od : intristearate: essified based on available i intristearate: essified based on available i iratory or skin sensitization assified based on available i iratory sensitization assified based on available i ionents: hectin:	09/30/2023 4698084-00017 Method: OECD Remarks: Base corrosion/irritation assified based on available information. conents: esctin: es : Rabbit t : No skin irritation inum tristearate: es : reconstructed P odd : OECD Test Gu rks : Based on data t : No skin irritation assified based on available information. conents: es : Rabbit t : No skin irritation us eye damage/eye irritation assified based on available information. conents: es : Rabbit t : Mild eye irritation inum tristearate: : No eye irritation isettin: : No eye irritation istatory or skin sensitization : Based on data iratory or skin sensitization : Based on data assified based on available information. : iratory sensitization assified based on available information. : iratory sensitization assified based on available information.

Aluminum tristearate:

Test Type

: Local lymph node assay (LLNA)



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

ersion 2	Revision Date: 09/30/2023	SDS Number:Date of last issue: 04/04/20234698084-00017Date of first issue: 07/29/2019	
Route Speci Metho Resul Rema	bd t	 Skin contact Mouse OECD Test Guideline 429 negative Based on data from similar materials 	
Germ	cell mutagenicity		
	assified based on av	ailable information.	
	<u>oonents:</u> ectin:		
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AN Result: negative	1ES)
		Test Type: DNA damage and repair, unschedule thesis in mammalian cells (in vitro) Test system: human diploid fibroblasts Result: negative	⊧d DNA syn-
		Test Type: Mouse Lymphoma Result: negative	
Alum	inum tristearate:		
Geno	toxicity in vitro	 Test Type: In vitro mammalian cell gene mutatio Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials 	n test
		Test Type: Bacterial reverse mutation assay (AM Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials	1ES)
Geno	toxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus cytogenetic assay) Species: Rat Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials	s test (in vivo
Not cl	nogenicity assified based on av	ailable information.	
	oonents:		
lverm	ectin:		

Application Route NOAEL Result	:	Rat Oral 1.5 mg/kg body weight negative Based on data from similar materials
Remarks	:	Based on data from similar materials



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Vers 8.2	ion	Revisio 09/30/2	on Date: 2023		S Number: 98084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
	Species Applica NOAEL Result Remark	tion Roi	ute		Mouse Oral 2.0 mg/kg body w negative Based on data fro	eight m similar materials
	IARC					at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
	OSHA				this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.
	NTP					at levels greater than or equal to 0.1% is carcinogen by NTP.
	•		toxicity based on availa	ble	information.	
	Compo	onents:				
	Iverme Effects		ity	:		
	Effects	on fetal	development	:	Result: Teratogen	
					Result: Embryotox offspring were det	: Oral oxicity: LOAEL: 0.4 mg/kg body weight kic effects and adverse effects on the

Aluminum tristearate:





Ivermectin (3.5%) Formulation

Vers 8.2	sion	Revision Date: 09/30/2023		S Number: 98084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
	Effects on fertility		:	Species: Rat Application Route Method: OECD To Result: negative	
	Effects	on fetal development	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
		single exposure s damage to organs (C	entra	al nervous system)	if swallowed.
		onents:		, ,	
	lverme	ctin:			
	Target Assess	Organs ment	:	Central nervous s Causes damage t	•
	STOT-repeated exposure Causes damage to organs (C swallowed.		entr	al nervous system)	through prolonged or repeated exposure if
	Compo	onents:			
	lverme				
	Target Assess	Organs ment	:	Central nervous s Causes damage t exposure.	ystem o organs through prolonged or repeated
	Repeat	ed dose toxicity			
	Compo	onents:			
	lverme	ctin:			
	Species NOAEL LOAEL Applica Exposu	s - ition Route ure time Organs		Dog 0.5 mg/kg 1 mg/kg Oral 14 Weeks Central nervous s Dilatation of the p	ystem upil, Tremors, Lack of coordination, anorexia
	Specie: NOAEL	-	:	Monkey 1.2 mg/kg	
		ition Route ire time	:	Oral 2 Weeks	
	Remarl		:		erse effects were reported
	Specie	S	:	Rat	



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Versior 8.2	n Revision Date: 09/30/2023		DS Number: 98084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019		
LC Ap Ex	NOAEL:LOAEL:Application Route:Exposure time:Target Organs:		0.4 mg/kg 0.8 mg/kg Oral 3 Months spleen, Bone marrow, Kidney			
Sp NC Ap Ex	uminum tristearate: Decies DAEL oplication Route oposure time emarks	:	Rat >= 5,000 mg/kg Ingestion 90 Days Based on data fro	om similar materials		
No	Aspiration toxicity Not classified based on available					
	Experience with human expos					
Sk Ey	ermectin: kin contact ve contact gestion	:	Remarks: May irr Symptoms: Drow	absorbed through skin. itate eyes. siness, Dilatation of the pupil, Tremors, Vom- ack of coordination		
SECTION	ON 12. ECOLOGICAL INF	OR	MATION			
Ec	cotoxicity					
<u>Cc</u>	omponents:					
lve	ermectin:					
To	oxicity to fish	:	LC50 (Oncorhyno Exposure time: 96	hus mykiss (rainbow trout)): 0.003 mg/l ን h		
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.0048 mg/l 5 h		
_						

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.000025 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Version Revision Date: 8.2 09/30/2023			DS Number: 98084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019	
Alu	Aluminum tristearate:				
Eco	otoxicology Assessmen	nt			
Acu	te aquatic toxicity	:	Toxic effects can	not be excluded	
Chr	onic aquatic toxicity	:	Toxic effects can	not be excluded	
Per	sistence and degradab	ility			
<u>Cor</u>	nponents:				
	mectin: degradability	:	Result: Not readil Biodegradation: Exposure time: 2-	50 %	
Bio	accumulative potential				
Cor	nponents:				
lver	mectin:				
Bioa	accumulation	:	Bioconcentration	factor (BCF): 74	
	tition coefficient: n- anol/water	:	log Pow: 3.22		
Moł	bility in soil				
No	data available				
•	er adverse effects data available				

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
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

UNRTDG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class Packing group Labels Environmentally hazardous	:	9 III 9 ves



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Version 8.2	Revision Date: 09/30/2023		OS Number: 98084-00017	Date of last issue: 04/04/2023 Date of first issue: 07/29/2019
UN/I	-DGR D No. er shipping name	:		hazardous substance, liquid, n.o.s.
Labe	ing group ls ing instruction (cargo	: :	(Ivermectin) 9 III Miscellaneous 964	
Pack ger a	ing instruction (passen- ircraft) onmentally hazardous	:	964 yes	
UN n	3-Code umber er shipping name	:	UN 3082 ENVIRONMENT N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labe EmS	ing group	: :	9 III 9 F-A, S-F yes	
Transport in bulk according Not applicable for product as		-		POL 73/78 and the IBC Code
Dom	estic regulation			
	F R D/NA number er shipping name	:		hazardous substance, liquid, n.o.s.
Labe ERG	ing group ls Code	:	(Ivermectin) 9 III CLASS 9 171	
Marir Rema	ne pollutant arks	:	liters. Shipment by grou may be shipped	ly to containers over 119 gallons or 450 und under DOT is non-regulated; however it per the applicable hazard classification to odal transport involving ICAO (IATA) or IMO.
Spec	ial precautions for use	r		

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.



according to the OSHA Hazard Communication Standard

Ivermectin (3.5%) Formulation

Vers 8.2		Revision Date:)9/30/2023		0S Number: 98084-00017	Date of last issue: 0 Date of first issue: 0		
	•		dous Substances Reportable Quantity any components with a section 304 EHS RQ.				
	SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ.						
	SARA 31	1/312 Hazards	:		y route of exposure) gan toxicity (single or	repeated exposure)	
	SARA 313		:	This material does not contain any chemical components known CAS numbers that exceed the threshold (De Minim reporting levels established by SARA Title III, Section 313			
	US State	Regulations					
	Pennsyl	vania Right To Know	w				
	Glycerides, mixed deca Ivermectin		anoyl and octanoyl	73398-61-5 70288-86-7			
	Californi	a Permissible Expo	sur	e Limits for Chem	ical Contaminants		
		Aluminum tristearat	e			637-12-7	
	The ingr	edients of this prod	uct	are reported in th	e following invento	ries:	
	AICS		:	not determined			
	DSL		:	not determined			
	IECSC		:	not determined			
	Ivermectin California Permissible Exposur Aluminum tristearate The ingredients of this product AICS : DSL :		sur te luct	e Limits for Chem are reported in th not determined not determined		70288-86-7 637-12-7	

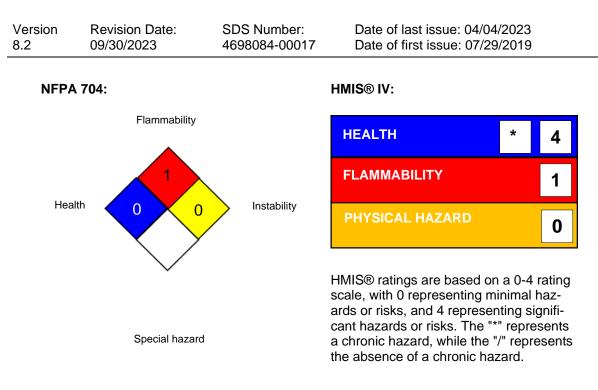
SECTION 16. OTHER INFORMATION

Further information



according to the OSHA Hazard Communication Standard

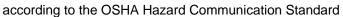
Ivermectin (3.5%) Formulation



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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: HMIS - Hazardous Materials Identification System: 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance





Ivermectin (3.5%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
8.2	09/30/2023	4698084-00017	Date of first issue: 07/29/2019

Inventory; 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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Revision Date	:	09/30/2023

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.

US / Z8