

according to the OSHA Hazard Communication Standard

Ivermectin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
7.0	07/06/2024	6097528-00015	Date of first issue: 06/30/2020

SECTION 1. IDENTIFICATION

Product name	:	Ivermectin Formulation
Manufacturer or supplier's of	deta	ails
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 c	hen	nical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

SECTION 2. HAZARDS IDENTIFICATION

dan	ce with the OSHA Hazard Communication Standard (29 CFR
:	Category 1 (Central nervous system)
:	Category 1 (Central nervous system)
:	
:	Danger
:	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.
:	 Prevention: P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Response: P307 + P311 IF exposed: Call a doctor. Storage:
	P405 Store locked up.
	Disposal:
	:





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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)
Oils, sesame	8008-74-0	81.3
Ivermectin	70288-86-7	1

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	:	Causes damage to organs through prolonged or repeated exposure if swallowed.
delayed Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

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

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	Specific ods	c extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.	
	Special for fire-	protective equipment fighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6.	ACCIDENTAL RELE	ASI	E MEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
		ls and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional 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 mist or vapors.
-		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		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



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Conditions for safe storage		environment. : Keep in properly labeled containers. Store locked up.				
Mater	ials to avoid	: Do not store with Strong oxidizing	ostances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oils, sesame	8008-74-0	TWA (mist - total)	10 mg/m ³	NIOSH REL
		TWA (mist - respirable)	5 mg/m³	NIOSH REL
Ivermectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal
	Further informa	ation: Skin		
		Wipe limit	300 µg/100 cm2	Internal

Containment technologies suitable for controlling compound 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 maintain vapor exposures below recommended limits. Whe concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provide by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.	rn. nd led

Hand protection



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Material		: Chemical-resi	stant gloves
Remarks Eye protection		If the work env mists or aeros Wear a facesh	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 frect contact to the face with dusts, mists, or
Skin and body protection		Additional boo task being per disposable su	or laboratory coat. ly garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, its) to avoid exposed skin surfaces. te degowning techniques to remove potentially clothing.
Hygiene measures		eye flushing s working place When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide ystems and safety showers close to the o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of pontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	oily
Color	:	light yellow
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	333.5 °F / 167.5 °C
Flash point	:	426.6 °F / 219.2 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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		explosion limit / Lower bility limit	:	No data available	
	Vapor pressure		:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	0.88 - 0.92	
	Density		:	No data available	
	Solubili Wate	ty(ies) er solubility	:	practically insolut	ble
	Partition octanol	n coefficient: n-	:	Not applicable	
	Autoignition temperature		:	No data available	
	Decomposition temperature		:	No data available	
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact



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Inges				
Eye c	ontact			
	e toxicity lassified based on ava	ailable i	nformation.	
Produ	uct:			
Acute	oral toxicity		Acute toxicity e Method: Calcul	stimate: 5,000 mg/kg ation method
Acute	e dermal toxicity		Acute toxicity e Method: Calcula	stimate: > 5,000 mg/kg ation method
<u>Com</u>	oonents:			
Oils,	sesame:			
Acute	oral toxicity	:	LD50 (Rat): > 2 Remarks: Base	,000 mg/kg d on data from similar materials
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
lverm	nectin:			
Acute	oral toxicity	:	LD50 (Rat): 50	mg/kg
			LD50 (Mouse):	25 mg/kg
			Symptoms: Vor	: > 24 mg/kg Central nervous system niting, Dilatation of the pupil nortality observed at this dose.
Acute	inhalation toxicity		LC50 (Rat): 5.1 Exposure time: Test atmospher	1 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	406 mg/kg
			LD50 (Rat): > 6	60 mg/kg
-	corrosion/irritation lassified based on ava	ailable i	nformation.	
<u>Com</u>	oonents:			
Oils,	sesame:			
Speci Resul			Rabbit No skin irritatio	n
lverm	ectin:			
	es		Rabbit	



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Serious eye damage/eye irritation Not classified based on available information. Components: Oils, sesame: Species :: Rabbit Result :: No eye irritation Mermectin: Species :: Rabbit Result :: Mole eye irritation String sensitization Skin sensitization Not classified based on available information. Respiratory sensitization Not classified based on available information. Components: Oils, sesame: Test Type Routes of exposure Secies Wermectin: Routes of exposure Not classified based on available information. Components: Oils, sesame: Result : negative Net classified based on available information. Components: Not classified based on available information. Components: Result : Dermal Species : Dermal Species : Dermal Species : Dermal Species	Version 7.0	Revision Date: 07/06/2024	-	0S Number: 97528-00015	Date of last issue: 04/06/2024 Date of first issue: 06/30/2020
Not classified based on available information. Components: Oils, sesame: Species :: Result :: Not classified based on available information. Permectin: Species :: Stin sensitization Not classified based on available information. Components: Oils, sesame: Test Type :: Result :: Deermal : Species :: Result ::	Serio	ous eve damage/ev	e irritati	on	
Oils, sesame: Species : Result : No eye irritation Vermectin: Species : Result : Mild eye irritation Respiratory or skin sensitization Skin sensitization Not classified based on available information. Respiratory sensitization Not classified based on available information. Components: Oils, sesame: Test Type Type Result Result Result Not classified based on available information. Components: Oils, sesame: Result : negative Ivermectin: Routes of exposure : Dermal Species : Humans Result : Does not cause skin sensitization. Components: : Does not cause skin sensitization. Components: : Result: negative Oils, sesame: : Result: negative Correctin: : Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation					
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thesis in mammalian cells (in vitro) Test system: human diploid fibroblasts Result: negative	Geno	otoxicity in vitro	:		rial reverse mutation assay (AMES)
Test Type: Mouse Lymphoma				thesis in mamma Test system: hun	lian cells (in vitro)
				Test Type: Mous	e Lymphoma



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		Result: negative	e		
Carci	nogenicity				
Not cla	assified based on avai	ilable information.			
<u>Comp</u>	onents:				
lverm	ectin:				
Specie	25	: Rat			
	ation Route	: Oral			
NÖAE		: 1.5 mg/kg body	v weight		
Result	t	: negative	-		
Rema	rks	: Based on data	from similar materials		
Specie	es	: Mouse			
	ation Route	: Oral			
NOAE		: 2.0 mg/kg body	v weight		
Result		: negative	* • • • • • •		
Rema	rks	: Based on data	from similar materials		
IARC		No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.			
OSHA		ent of this product prea list of regulated carcin	sent at levels greater than or equal to 0.1% is logens.		
		0			
NTP		nt of this product prese	ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.		
Repro Not cla <u>Comp</u>	identified as ductive toxicity assified based on avai	nt of this product prese a known or anticipate			
Repro Not cla <u>Comp</u> Iverm	identified as oductive toxicity assified based on avai onents: ectin:	nt of this product prese a known or anticipate	ed carcinogen by NTP.		
Repro Not cla <u>Comp</u> Iverm	identified as ductive toxicity assified based on avai	nt of this product prese a known or anticipate ilable information.	ed carcinogen by NTP.		
Repro Not cla <u>Comp</u> Iverm	identified as oductive toxicity assified based on avai onents: ectin:	nt of this product prese a known or anticipate ilable information. : Test Type: Fert Species: Rat	illity		
Repro Not cla <u>Comp</u> Iverm	identified as oductive toxicity assified based on avai onents: ectin:	a known or anticipate ilable information. : Test Type: Fert Species: Rat Application Rou	ility ute: Oral		
Repro Not cla <u>Comp</u> Iverm	identified as oductive toxicity assified based on avai onents: ectin:	at of this product prese a known or anticipate ilable information. : Test Type: Fert Species: Rat Application Rou Fertility: NOAE	ility ute: Oral L: 0.6 mg/kg body weight		
Repro Not cla <u>Comp</u> Iverm	identified as oductive toxicity assified based on avai onents: ectin:	at of this product prese a known or anticipate ilable information. : Test Type: Fert Species: Rat Application Rou Fertility: NOAE	ility ute: Oral		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	a known or anticipate ilable information. : Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal	ility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility.		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai onents: ectin:	a known or anticipate a known or anticipate ilable information. : Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal t : Test Type: Dev	ed carcinogen by NTP. tility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	a known or anticipate ilable information. : Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal	ed carcinogen by NTP. tility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment e		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	a known or anticipate ilable information. : Test Type: Fert Species: Rat Application Rou Fertility: NOAE Result: Animal t : Test Type: Dev Species: Mouse Application Rou	ed carcinogen by NTP. tility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment e		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	 a known or anticipate a known or anticipate ilable information. Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal t : Test Type: Dev Species: Mouse Application Rou Developmental Result: Teratog 	ed carcinogen by NTP. tility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment e ute: Oral Toxicity: NOAEL: 0.2 mg/kg body weight jenic effects., Embryotoxic effects and adverse		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	 a known or anticipate a known or anticipate ilable information. Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal Test Type: Dev Species: Mouse Application Rou Developmental Result: Teratog effects on the or 	ed carcinogen by NTP. tility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment e ute: Oral Toxicity: NOAEL: 0.2 mg/kg body weight genic effects., Embryotoxic effects and adverse		
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Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	 a known or anticipate a known or anticipate ilable information. Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal t : Test Type: Dev Species: Mouse Application Rou Developmental Result: Teratog effects on the o toxic doses Test Type: Dev 	ed carcinogen by NTP. dility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment e ute: Oral Toxicity: NOAEL: 0.2 mg/kg body weight genic effects., Embryotoxic effects and adverse offspring were detected only at high maternal		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	 a known or anticipate a known or anticipate ilable information. Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal t : Test Type: Dev Species: Mouse Application Rou Developmental Result: Teratog effects on the o toxic doses Test Type: Dev Species: Rat 	ed carcinogen by NTP. tility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment e ute: Oral Toxicity: NOAEL: 0.2 mg/kg body weight jenic effects., Embryotoxic effects and advers iffspring were detected only at high maternall relopment		
Repro Not cla Comp Iverm Effects	identified as oductive toxicity assified based on avai <u>conents:</u> ectin: s on fertility	 a known or anticipate a known or anticipate ilable information. Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: Animal t : Test Type: Dev Species: Mouse Application Rou Developmental Result: Teratog effects on the o toxic doses Test Type: Dev Species: Rat Application Rou 	ed carcinogen by NTP. tility ute: Oral L: 0.6 mg/kg body weight testing did not show any effects on fertility. relopment e ute: Oral Toxicity: NOAEL: 0.2 mg/kg body weight jenic effects., Embryotoxic effects and advers iffspring were detected only at high maternall relopment		

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ersion .0	Revision Date: 07/06/2024	SDS Number: 6097528-00015	Date of last issue: 04/06/2024 Date of first issue: 06/30/2020
		offspring were	mechanism or mode of action may not be rele-
			t
	-single exposure		m) if evellowed
	oonents:	s (Central nervous syste	m) ii swallowed.
lverm	nectin:		
	et Organs	: Central nervous	
Asses	ssment	: Causes damag	e to organs.
STOT	-repeated exposure	9	
Caus swalle		s (Central nervous syste	m) through prolonged or repeated exposure if
<u>Com</u>	ponents:		
lverm	nectin:		
-	et Organs ssment	: Central nervous : Causes damag exposure.	s system e to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	oonents:		
lverm	nectin:		
Expos	EL EL cation Route sure time et Organs	: Dog : 0.5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervous : Dilatation of the	s system e pupil, Tremors, Lack of coordination, anorexi
Expos		: Monkey : 1.2 mg/kg : Oral : 2 Weeks : No significant a	dverse effects were reported
Rema			



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Ivermectin Formulation

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ر ا	Exposi	tion Route ure time Organs	:	0.8 mg/kg Oral 3 Months spleen, Bone mar	row, Kidney
l	Not cla	tion toxicity ssified based on availa ence with human exp			
	-	onents:			
:	Iverme Skin co Eye co Ingestio	ectin: ontact ntact	:	Remarks: May irri Symptoms: Drows	absorbed through skin. tate eyes. siness, Dilatation of the pupil, Tremors, Vom- ick of coordination
SEC	TION 1	2. ECOLOGICAL INFO	ORN	ATION	
	Feeter	-ii41 <i>/</i>			
	Ecotox	-			
-	lverme	onents:			
-		/ to fish	:	LC50 (Oncorhync 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 S h
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.000025 mg/l 3 h
	Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	chneriella subcapitata (green algae)): > 9.1 2 h est Guideline 201
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	
I	Persist	tence and degradabili	ity		
		onents:	-		
(Oils, se	esame:			

Result: Readily biodegradable. Biodegradability :

:

lvermectin:

Biodegradability

Result: Not readily biodegradable.



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Ivermectin Formulation

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		Biodegrada Exposure tir	
Bioad	ccumulative potentia	I	
<u>Com</u>	ponents:		
lverm	nectin:		
Bioac	cumulation	: Bioconcentr	ation factor (BCF): 74
	ion coefficient: n- ol/water	: log Pow: 3.2	22
Mobi	lity in soil		
No da	ata available		
Other	r adverse effects		
No da	ata available		
SECTION	13. DISPOSAL CON	SIDERATIONS	
Dispo	osal methods		

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class		(Ivermectin, 2,6-Di-tert-butyl-p-cresol) 9
Packing group	:	
Labels	÷	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Ivermectin, 2,6-Di-tert-butyl-p-cresol)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes



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UN n Prope Class Packi Label EmS	ing group	N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID, ,6-Di-tert-butyl-p-cresol)
Trans	•	ng to Annex II of MA	ARPOL 73/78 and the IBC Code
Dom	estic regulation		
Prope Class Packi Labe ERG	D/NA number er shipping name ing group ls Code ie pollutant	 (Ivermectin, 2 9 III CLASS 9 171 yes(Ivermectin Above applies liters. Shipment by g may be shipped 	Ily hazardous substance, liquid, n.o.s. 2,6-Di-tert-butyl-p-cresol) 5 only to containers over 119 gallons or 450 ground under DOT is non-regulated; however it ed per the applicable hazard classification to -modal transport involving ICAO (IATA) or IMO.

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.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain 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 311/312 Hazards	:	Specific target organ toxicity (single or repeated exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.



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US Sta	ate Regulations			
Pennsylvania Right To Know				
	Oils, sesame Ethyl oleate		8008-74-0 111-62-6	
California Permissible Exposure Limits for Chemical Contaminants				
	Oils, sesame		8008-74-0	
The in	gredients of this proc	duct are reported	in the following inventories:	
AICS		: not determine	ed	
DSL		: not determine	ed	
IECSC	;	: not determine	ed	

SECTION 16. OTHER INFORMATION

Further information NFPA 704: HMIS® IV: Flammability Health 0 0 Instability Health 0 Instability Health 0 Instability

:

2

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

Special hazard

NIOSH REL	
NIOSH REL / TWA	

USA. NIOSH Recommended Exposure Limits Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

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





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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 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	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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