### **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078551947

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078551921 078551939



Version 9.4	Revision Date: 10/19/2022		S Number: 352-00025	Date of last issue: 09/01/2022 Date of first issue: 02/02/2015	
SECTION	1. IDENTIFICATION				
Produ	uct name	:	Ivermectin / Pyra	ntel Formulation	
Manı	facturer or supplier's	detai	ils		
Addre Telep Emer	Company name of supplier Address Telephone Emergency telephone E-mail address		<ul> <li>Merck &amp; Co., Inc</li> <li>126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065</li> <li>908-740-4000</li> <li>1-908-423-6000</li> <li>EHSDATASTEWARD@merck.com</li> </ul>		
Reco	mmended use of the	chem	ical and restricti	ons on use	
Reco	mmended use	:	Veterinary product		
Restrictions on use		:	Not applicable		

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

#### **GHS** label elements

Signal Word	:	Warning
Hazard Statements	:	If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

### Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
4,4'-Methylenebis[3-hydroxy-2-	22204-24-6	8.6
naphthoic] acid, compound with (E)-		
1,4,5,6-tetrahydro-1-methyl-2-[2-(2-		
thienyl)vinyl]pyrimidine (1:1)		
Propylene glycol	57-55-6	4.6
Ivermectin	70288-86-7	0.02

### **SECTION 4. FIRST AID MEASURES**

General advice

In the case of accident or if you feel unwell, seek medical advice immediately.



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		When s advice.	ymptoms persist or in all cases of doubt seek medical
lf inha	aled		d, remove to fresh air. dical attention if symptoms occur.
In cas	se of skin contact	: Wash w	ith water and soap. Jical attention if symptoms occur.
In cas	se of eye contact	: If in eye	s, rinse well with water. dical attention if irritation develops and persists.
lf swa	allowed	: If swallo Get me	wed, DO NOT induce vomiting. dical attention if symptoms occur. nouth thoroughly with water.
and e	important symptoms ffects, both acute and	: Contact the skin	with dust can cause mechanical irritation or drying of
	ea ction of first-aiders s to physician	: No spec	ntact with the eyes can lead to mechanical irritation. ial precautions are necessary for first aid responders. mptomatically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASURES	
Suital	ble extinguishing media		resistant foam dioxide (CO2)
Unsu media	itable extinguishing	: None kr	
Speci	media Specific hazards during fire fighting		enerating dust; fine dust dispersed in air in sufficient rations, and in the presence of an ignition source is a I dust explosion hazard. re to combustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	Sulfur o Metal o	n oxides (NOx) xides
Speci ods	ific extinguishing meth-	cumstai Use wa Remove so.	nguishing measures that are appropriate to local cir- nces and the surrounding environment. er spray to cool unopened containers. e undamaged containers from fire area if it is safe to do
		-vacua	e area.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	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.



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			•	se of contaminated wash water. should be advised if significant spillages ned.
	hods and materials for tainment and cleaning up	:	container for disp Avoid dispersal o with compressed Dust deposits sho surfaces, as thes released into the Local or national disposal of this m employed in the o determine which Sections 13 and	f dust in the air (i.e., clearing dust surfaces

### SECTION 7. HANDLING AND STORAGE

Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe dust.
	Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure assessment
	Minimize dust generation and accumulation.
	Keep container closed when not in use.
	Keep away from heat and sources of ignition.
	Take precautionary measures against static discharges.
	Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	: Keep in properly labeled containers.
5	Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters Components CAS-No. Value type Control parame-Basis (Form of ters / Permissible exposure) concentration 22204-24-6 250 µg/m3 (OEB 4,4'-Methylenebis[3-hydroxy-2-Internal TWA naphthoic] acid, compound 2) with (E)-1,4,5,6-tetrahydro-1methyl-2-[2-(2thienyl)vinyl]pyrimidine (1:1) Propylene glycol 57-55-6 TWA 10 mg/m<sup>3</sup> US WEEL



/ersion ).4			OS Number: 652-00025	Date of last issue: 09/01/2022 Date of first issue: 02/02/2015		
lverm	Ivermectin		70288-86-7 Further inform	TWA	30 µg/m3 (OEB 3)	Internal
				Wipe limit	300 µg/100 cm2	Internal
Engir	neering measures	:	design and o protect produ Containment are required t	perated in acco cts, workers, a technologies s to control at sou d to uncontrolle devices).	uld be implemented by rdance with GMP prin nd the environment. uitable for controlling urce and to prevent m rd areas (e.g., open-fa	compounds igration of
Perso	onal protective equip	ment				
	iratory protection	:	General and maintain vapo concentration unknown, app Follow OSHA use NIOSH/M by air purifyin hazardous ch supplied resp release, expo	or exposures be s are above re propriate respira- respirator regu- ISHA approved g respirators ag- lemical is limite irator if there is soure levels are where air purif	entilation is recomme elow recommended lin commended limits or atory protection shoul lations (29 CFR 1910 I respirators. Protection gainst exposure to an d. Use a positive pres any potential for unco unknown, or any othe ying respirators may the	mits. Where are d be worn. 0.134) and on provided y ssure air ontrolled er
Hand	protection					
Ma	aterial	:	Chemical-res	istant gloves		
	emarks protection	:	If the work er mists or aero Wear a faces	glasses with sic wironment or a sols, wear the a hield or other fi	le shields or goggles. ctivity involves dusty of appropriate goggles. Ill face protection if th the face with dusts, r	ere is a
Skin a	and body protection	:	Work uniform Additional bo task being pe disposable su	rformed (e.g., s uits) to avoid ex ate degowning	coat. ould be used based u sleevelets, apron, gau posed skin surfaces. techniques to remove	ntlets,
Hygie	ne measures	:	If exposure to eye flushing s working place When using of Wash contain The effective engineering of appropriate d industrial hyg	o chemical is lik systems and sa do not eat, drink ninated clothing operation of a controls, proper egowning and	before re-use. facility should include personal protective e decontamination proc g, medical surveillance	the review of quipment, edures,

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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Арреа	irance	:	powder			
Color		:	brown			
Odor		:	No data available	9		
Odor <sup>-</sup>	Threshold	:	No data available	2		
рН	рН		4 - 6 (68 °F / 20 °C) (as aqueous solution)			
Meltin	g point/freezing point	:	No data available	9		
Initial range	boiling point and boiling	:	No data available	2		
Flash	point	:	Not applicable			
Evapo	pration rate	:	Not applicable			
Flamn	nability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.		
Flamn	nability (liquids)	:	Not applicable			
	explosion limit / Upper ability limit	:	No data available	3		
	explosion limit / Lower ability limit	:	No data available	2		
Vapor	pressure	:	Not applicable			
Relativ	ve vapor density	:	Not applicable			
Relativ	ve density	:	No data available	2		
Densit	ty	:	No data available	9		
	lity(ies) ater solubility	:	No data available	9		
	on coefficient: n- bl/water	:	log Pow: 3.22			
	nition temperature	:	No data available	2		
Decor	nposition temperature	:	No data available			
Viscos Vis	sity cosity, kinematic	:	Not applicable			
Explos	sive properties	:	Not explosive			
Oxidiz	ing properties	:	The substance of	r mixture is not classified as oxidizing.		



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Molec	cular weight	: No data ava	ailable					
Partic	ele size	: No data available						
SECTION	10. STABILITY AND R	EACTIVITY						
	tivity nical stability bility of hazardous reac-	: Stable unde : May form ex handling or	ed as a reactivity hazard. er normal conditions. xplosive dust-air mixture during processing, other means. <i>v</i> ith strong oxidizing agents.					
Incom	itions to avoid npatible materials rdous decomposition icts	Avoid dust f : Oxidizing ag	<ul> <li>Heat, flames and sparks. Avoid dust formation.</li> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul>					
SECTION	11. TOXICOLOGICAL	INFORMATION						
Inhala	ation							
Skin o Inges Eye c <b>Acute</b> Not cl	ontact e <b>toxicity</b> lassified based on availa	able information.						
Skin o Inges Eye c <b>Acute</b> Not cl	tion contact <b>e toxicity</b> lassified based on availa	: Acute toxicit	y estimate: > 5,000 mg/kg culation method					
Skin o Inges Eye c <b>Acute</b> Not cl <u>Produ</u> Acute	tion contact <b>e toxicity</b> lassified based on availa <u>uct:</u>	: Acute toxicit						
Skin o Inges Eye c Acute Not cl <u>Produ</u> Acute <u>Comp</u> 4,4'-N meth	tion contact <b>e toxicity</b> lassified based on availa <u>uct:</u> e oral toxicity <u>ponents:</u> Methylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl]	: Acute toxicit Method: Cal y-2-naphthoic] ac pyrimidine (1:1):	culation method					
Skin o Inges Eye c Acute Not cl <u>Produ</u> Acute <u>Comp</u> 4,4'-N meth	tion contact <b>e toxicity</b> lassified based on availa <u>uct:</u> e oral toxicity <u>conents:</u> <b>/ethylenebis[3-hydrox</b> )	: Acute toxicit Method: Cal y-2-naphthoic] ac pyrimidine (1:1):	culation method cid, compound with (E)-1,4,5,6-tetrahydro-1-					
Skin o Inges Eye c Acute Not cl <u>Produ</u> Acute <u>Comp</u> 4,4'-N meth	tion contact <b>e toxicity</b> lassified based on availa <u>uct:</u> e oral toxicity <u>ponents:</u> Methylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl]	: Acute toxicit Method: Cal y-2-naphthoic] ad pyrimidine (1:1): : LD50 (Rat):	culation method					
Skin o Inges Eye c Acute Not cl <u>Produ</u> Acute <u>Comp</u> 4,4'-N meth	tion contact <b>e toxicity</b> lassified based on availa <u>uct:</u> e oral toxicity <u>ponents:</u> Methylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl]	: Acute toxicit Method: Cal y-2-naphthoic] ac pyrimidine (1:1): : LD50 (Rat): LD50 (Mous	culation method cid, compound with (E)-1,4,5,6-tetrahydro-1- > 24,000 mg/kg					
Skin o Inges Eye c Acute Not cl <u>Produ</u> Acute <b>Comp</b> 4,4'-N meth Acute	tion contact e toxicity lassified based on availa <u>uct:</u> coral toxicity <u>conents:</u> Methylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl] e oral toxicity ylene glycol:	: Acute toxicit Method: Cal y-2-naphthoic] ac pyrimidine (1:1): : LD50 (Rat): LD50 (Mous LD50 (Dog):	culation method cid, compound with (E)-1,4,5,6-tetrahydro-1- > 24,000 mg/kg e): > 24,000 mg/kg 2,000 mg/kg					
Skin o Inges Eye c Acute Not cl Produ Acute Comp 4,4'-N methy Acute	tion contact e toxicity lassified based on availa <u>uct:</u> coral toxicity <u>conents:</u> Methylenebis[3-hydrox; yl-2-[2-(2-thienyl)vinyl] e oral toxicity	<ul> <li>Acute toxicity Method: Calify</li> <li>y-2-naphthoic] ad pyrimidine (1:1):</li> <li>LD50 (Rat):</li> <li>LD50 (Mous</li> <li>LD50 (Dog):</li> <li>LD50 (Rat):</li> <li>LC50 (Rat):</li> <li>Exposure tin</li> </ul>	culation method cid, compound with (E)-1,4,5,6-tetrahydro-1- > 24,000 mg/kg e): > 24,000 mg/kg 2,000 mg/kg 22,000 mg/kg > 44.9 mg/l					



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		tox	icity	
lverm	nectin:			
Acute	e oral toxicity	: LD	50 (Rat): 10	) mg/kg
		LD	50 (Mouse)	: 25 mg/kg
		Tai Syi	rget Organs mptoms: Vo	/): > 24 mg/kg :: Central nervous system omiting, Dilatation of the pupil mortality observed at this dose.
Acute	inhalation toxicity	Ex	50 (Rat): 5. posure time st atmosphe	
Acute	e dermal toxicity	: LD	50 (Rabbit)	: 406 mg/kg
		LD	50 (Rat): >	660 mg/kg
-	corrosion/irritation lassified based on ava	ailable info	rmation.	
Com	oonents:			
	ylene glycol:	_		
Speci	es		bbit	uideline 404
	les od	: OE		uideline 404 on
Speci Metho Resul	les od	: OE	CD Test G	
Speci Metho Resul	es od It nectin: ies	: OE : No : Ra	CD Test G skin irritatio	on
Speci Metho Resul	es od It nectin: ies	: OE : No : Ra	CD Test G skin irritatio	on
Speci Metho Result Iverm Speci Result Serio	es od It nectin: ies	: OE : No : Ra : No	CD Test G skin irritatio bbit skin irritatio	on
Speci Metho Resul <b>Iverm</b> Speci Resul <b>Serio</b> Not cl	es od It nectin: es It us eye damage/eye	: OE : No : Ra : No	CD Test G skin irritatio bbit skin irritatio	on
Speci Metho Resul Speci Resul Serio Not cl <u>Comp</u> Propy	les od lt nectin: les lt us eye damage/eye lassified based on ava <u>ponents:</u> ylene glycol:	: OE : No : Ra : No irritation ailable info	CD Test G skin irritatio bbit skin irritatio rmation.	on
Speci Metho Resul Speci Resul Serio Not cl Comp Speci	les od it nectin: es it us eye damage/eye lassified based on ava <u>ponents:</u> ylene glycol: es	: OE : No : Ra : No irritation ailable info	CD Test G skin irritatio bbit skin irritatio rmation.	on
Speci Metho Resul Speci Resul Serio Not cl <u>Comp</u> Propy	les od It nectin: es It us eye damage/eye lassified based on ava <u>ponents:</u> ylene glycol: les It	: OE : No : Ra : No irritation ailable info : Ra : No	CD Test G skin irritatio bbit skin irritatio rmation. bbit eye irritatio	on
Speci Metho Resul Speci Resul Serio Not cl Comp Speci Resul Metho	les od It nectin: es It us eye damage/eye lassified based on ava <u>ponents:</u> ylene glycol: les It	: OE : No : Ra : No irritation ailable info : Ra : No	CD Test G skin irritatio bbit skin irritatio rmation. bbit eye irritatio	on on
Speci Metho Resul Speci Resul Serio Not cl Comp Speci Resul Metho	ies od it nectin: ies it us eye damage/eye lassified based on ava ponents: ylene glycol: ies it od nectin: ies	: OE : No : Ra : No irritation ailable infol : Ra : No : OE	CD Test G skin irritatio bbit skin irritatio rmation. bbit eye irritatio	on on uideline 405

### Skin sensitization

Not classified based on available information.





ersion 4	Revision Date: 10/19/2022	SDS Number: 52652-00025	Date of last issue: 09/01/2022 Date of first issue: 02/02/2015
Resp	iratory sensitizatior	ı	
-	lassified based on av		
Com	<u>oonents:</u>		
Prop	ylene glycol:		
Test	Type es of exposure ies	: Maximization : Skin contact : Guinea pig : negative	Test
lverm	nectin:		
Route	es of exposure	: Dermal	
Speci Resu		: Humans	no skin sonsitization
Resu	IL	Does not cau	ise skin sensitization.
Germ	cell mutagenicity		
Not c	lassified based on av	ailable information.	
Com	<u>ponents:</u>		
		oxy-2-naphthoic] ac nyl]pyrimidine (1:1):	id, compound with (E)-1,4,5,6-tetrahydro-1-
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Prop	ylene glycol:		
	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			hromosome aberration test in vitro CD Test Guideline 473 tive
Geno	toxicity in vivo	cytogenetic a Species: Mou	use coute: Intraperitoneal injection
lverm	nectin:		
	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		thesis in man	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) human diploid fibroblasts tive
			ouse Lymphoma





rsion	Revision Date: 10/19/2022	SDS Number: 52652-00025	Date of last issue: 09/01/2022 Date of first issue: 02/02/2015		
	<b>nogenicity</b> assified based on av	ailable information.			
Comp	oonents:				
Propy	/lene glycol:				
	cation Route sure time	: Rat : Ingestion : 2 Years : negative			
lverm	ectin:				
Speci Applic NOAE Resul Resul	cation Route EL t	: Rat : Oral : 1.5 mg/kg body : negative : Based on data	<i>r</i> weight from similar materials		
Speci Applic NOAE Resul Rema	cation Route EL t	: Mouse : Oral : 2.0 mg/kg body : negative : Based on data	/ weight from similar materials		
IARC			ent at levels greater than or equal to 0.1% confirmed human carcinogen by IARC.		
OSHA		No component of this product present at levels greater than or equal to 0.1% on OSHA's list of regulated carcinogens.			
NTP		No ingredient of this product present at levels greater than or equal to 0.1% identified as a known or anticipated carcinogen by NTP.			
Repro	oductive toxicity				
Not cl	assified based on av	ailable information.			
Comp	<u>oonents:</u>				

·····). = [= (= ····).)	<b>J</b> · · · · · · · · · · · · · · · · · · ·
Effects on fetal development	: Test Type: Embryo-fetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 3,000 mg/kg body weight Result: No effects on fertility and early embryonic development were detected.
	Test Type: Embryo-fetal development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Result: No effects on fertility and early embryonic development were detected.

### SAFETY DATA SHEET



### **Ivermectin / Pyrantel Formulation**

ersion 1	Revision Date: 10/19/2022		0S Number: 652-00025	Date of last issue: 09/01/2022 Date of first issue: 02/02/2015
<b>Propylene glycol:</b> Effects on fertility		:	Species: Mouse Application Route	eneration reproduction toxicity study
Effect	s on fetal development	:	Result: negative Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development e: Ingestion
	nectin:			
Effect	s on fertility	:		-
Effects on fetal development		:	Result: Teratoger	
			Result: Embryoto offspring were de	e: Oral oxicity: LOAEL: 0.4 mg/kg body weight xic effects and adverse effects on the
	-single exposure lassified based on availa	able	information.	
<u>Comp</u>	oonents:			
lvorm	ectin:			

### Ivermectin:

Target Organs	:	Central nervous system
Assessment	:	Causes damage to organs.

### STOT-repeated exposure

Not classified based on available information.



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<u>Com</u>	ponents:			
Targe	<b>nectin:</b> et Organs ssment	:	Central nervous s Causes damage f exposure.	system to organs through prolonged or repeated
Repe	eated dose toxicity			
Com	ponents:			
	Methylenebis[3-hydrox nyl-2-[2-(2-thienyl)vinyl			compound with (E)-1,4,5,6-tetrahydro-1-
	EL EL cation Route sure time	:	Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant adv	verse effects were reported
	EL cation Route sure time	· · · ·	Dog 600 mg/kg Oral 19 d No significant adv	verse effects were reported
	EL cation Route sure time	:	Dog 600 mg/kg Oral 30 d No significant adv	verse effects were reported
	EL ication Route isure time		Dog 600 mg/kg Oral 90 d No significant adv	verse effects were reported
Spec NOA Appli			Rat, male >= 1,700 mg/kg Ingestion 2 y	
Spec NOA LOAI Appli Expo Targo	EL		Dog 0.5 mg/kg 1 mg/kg Oral 14 Weeks Central nervous s Dilatation of the p	system upil, Tremors, Lack of coordination, anorexia



Version 9.4	Revision Date: 10/19/2022	SDS Number:Date of last issue: 09/0152652-00025Date of first issue: 02/02	
	EL cation Route sure time	: Monkey : 1.2 mg/kg : Oral : 2 Weeks : No significant adverse effects were reporte	d
Expo Targe <b>Aspi</b> i	EL	<ul> <li>Rat</li> <li>0.4 mg/kg</li> <li>0.8 mg/kg</li> <li>Oral</li> <li>3 Months</li> <li>spleen, Bone marrow, Kidney</li> </ul>	
	rience with human e		
Com	ponents:		
	/lethylenebis[3-hydro yl-2-[2-(2-thienyl)ving	/-2-naphthoic] acid, compound with (E)-1,4,5 pyrimidine (1:1):	,6-tetrahydro-1-
Inges	tion	: Symptoms: Abdominal pain, Nausea, Vom Headache, Dizziness, Fever	iting, Diarrhea,
lverm	nectin:		
	contact contact tion	<ul> <li>Remarks: Can be absorbed through skin.</li> <li>Remarks: May irritate eyes.</li> <li>Symptoms: Drowsiness, Dilatation of the p iting, anorexia, Lack of coordination</li> </ul>	upil, Tremors, Vom-

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l Exposure time: 96 h
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.0048 mg/l Exposure time: 96 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



rsion	Revision Date: 10/19/2022		)S Number: 652-00025	Date of last issue: 09/01/2022 Date of first issue: 02/02/2015
<u>Comp</u>	onents:			
	ethylenebis[3-hydrox <sub>)</sub> I-2-[2-(2-thienyl)vinyl]			d, compound with (E)-1,4,5,6-tetrahydro-1-
Ecoto	xicology Assessment			
Acute	aquatic toxicity	:	Toxic effects c	annot be excluded
Chroni	c aquatic toxicity	:	Toxic effects c	annot be excluded
Propy	lene glycol:			
	y to fish	:	LC50 (Oncorh Exposure time	ynchus mykiss (rainbow trout)): 40,613 mg/l : 96 h
	y to daphnia and other c invertebrates	:	EC50 (Cerioda Exposure time	iphnia dubia (water flea)): 18,340 mg/l : 48 h
Toxicit plants	y to algae/aquatic	:	Exposure time	onema costatum (marine diatom)): 19,300 mg : 72 h ) Test Guideline 201
	y to daphnia and other c invertebrates (Chron-	:	NOEC (Ceriod Exposure time	aphnia dubia (water flea)): 13,020 mg/l : 7 d
	y to microorganisms	:	NOEC (Pseud Exposure time	omonas putida): > 20,000 mg/l : 18 h
lverme	ectin:			
	y to fish	:	LC50 (Oncorh Exposure time	ynchus mykiss (rainbow trout)): 0.003 mg/l : 96 h
			LC50 (Lepomi Exposure time	s macrochirus (Bluegill sunfish)): 0.0048 mg/l : 96 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time	a magna (Water flea)): 0.000025 mg/l : 48 h
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time	kirchneriella subcapitata (green algae)): > 9.1 : 72 h ) Test Guideline 201
			mg/l Exposure time	okirchneriella subcapitata (green algae)): 9.1 : 72 h ) Test Guideline 201
Persis	tence and degradabil	ity		
Produ	<u>ct:</u>			
	gradability	:	Result: Not rea Biodegradation Exposure time	



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Com	ponents:		
	ylene glycol:		
Biode	egradability		eadily biodegradable. dation: 98.3 %
		Exposure	time: 28 d DECD Test Guideline 301F
		Method: (	JECD Test Guideline 301F
lvern	nectin:		
Biode	egradability		ot readily biodegradable. dation: 50 %
			e time: 240 d
Disc			
	ccumulative potentia	I	
Prod Biogo	<u>uct:</u> ccumulation	: Bioconce	ntration factor (BCF): 74
Dioac	cumulation	. Dioconce	
Com	ponents:		
Prop	ylene glycol:		
	ion coefficient: n- ol/water	: log Pow: Method: I	-1.07 Regulation (EC) No. 440/2008, Annex, A.8
Uclan		Method. I	
lverm	nectin:		
Bioac	cumulation	: Bioconce	ntration factor (BCF): 74
	ion coefficient: n-	: log Pow:	3.22
	iol/water		
	<b>lity in soil</b> ata available		
	r adverse effects		
	ata available		

### SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues Contaminated packaging	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.
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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

### UNRTDG

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,



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	ass cking group pels	N.O.S. (Ivermectin) : 9 : III : 9				
<b>IATA-DGR</b> UN/ID No. Proper shipping name		(Ivermectin)	ally hazardous substance, solid, n.o.s.			
Lal Pa	ass cking group cels cking instruction (cargo craft)	: 9 : III : Miscellaneou : 956	IS			
Pa gei	cking instruction (passen- aircraft) vironmentally hazardous	: 956 : yes				
IMDG-Code UN number Proper shipping name		: UN 3077 : ENVIRONMI N.O.S. (Ivermectin)	ENTALLY HAZARDOUS SUBSTANCE, SOLID,			
Lal Em	ass cking group pels iS Code irine pollutant	: 9 : III : 9 : F-A, S-F : yes				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.						
	Domestic regulation					
UN	<b>CFR</b> I/ID/NA number oper shipping name	: UN 3077 : Environment (Ivermectin)	ally hazardous substance, solid, n.o.s.			
Lal ER Ma	ass cking group cels :G Code rine pollutant marks	: 9 : III : CLASS 9 : 171 : yes(Ivermect				
		liters.	around under DOT is non regulated; however it			

Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-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.





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#### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the 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	:	Combustible dust
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.

#### **US State Regulations**

#### Pennsylvania Right To Know

Soybean proteins	9010-10-0
4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound	22204-24-6
with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-	
thienyl)vinyl]pyrimidine (1:1)	
D(+)-Glucose monohydrate	5996-10-1
Propylene glycol	57-55-6
D-Glucono-1,5-lactone	90-80-2

#### California Prop. 65

WARNING: This product can expose you to chemicals including tert-Butyl-4-methoxyphenol, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### The ingredients of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

### **SECTION 16. OTHER INFORMATION**

Further information





#### Full text of other abbreviations

US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA	:	8-hr TWA

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 Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act





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(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, OEC eChem Portal search results and European Chemicals Ag cy, http://echa.europa.eu/		
Re	evision Date	:	10/19/2022		

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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