SAFETY DATA SHEETS

This SDS packet was issued with item: 078551921

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

078551939 078551947



Version 7.5	Revision Date: 08/27/2021	SDS Number: 52652-00019		Date of last issue: 10/10/2020 Date of first issue: 02/02/2015	
SECTION	1. IDENTIFICATION				
Produ	ct name	:	Ivermectin / Pyra	ntel Formulation	
Manu	facturer or supplier's	deta	ails		
Company name of supplier Address Telephone Emergency telephone E-mail address		:	 Merck & Co., Inc 2000 Galloping Hill Road Kenilworth - New Jersey - U.S.A. 07033 908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com 		
Recor	mmended use of the o				
Recor	Recommended use		: Veterinary product		
GHS 0 1910.2				A Hazard Communication Standard (29 CFR	

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

CAS-No.	Concentration (% w/w)
22204-24-6	>= 5 - < 10
57-55-6	>= 1 - < 5
70288-86-7	< 0.1
	22204-24-6 57-55-6

Actual concentration is withheld as a trade secret

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.



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In o In o If s Mo and del Pro No	nhaled case of skin contact case of eye contact wallowed st important symptoms d effects, both acute and ayed otection of first-aiders tes to physician	: : : : : : : : : : : : : : : : : : : :	Wash with water a Get medical atten If in eyes, rinse we Get medical atten If swallowed, DO Get medical atten Rinse mouth thord Contact with dust the skin. Dust contact with No special precau Treat symptomatic	tion if symptoms occur. and soap. tion if symptoms occur. ell with water. tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur.
SECTIC	ON 5. FIRE-FIGHTING MEA	ASL	JRES	
Un	itable extinguishing media suitable extinguishing	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical None known.	
Sp	dia ecific hazards during fire nting	:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. oustion products may be a hazard to health.
Ha uct	zardous combustion prod- s	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Metal oxides Chlorine compounds	
Spo	ecific extinguishing meth- s	:	cumstances and t Use water spray t Remove undamag so.	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
	ecial protective equipment fire-fighters	:	Evacuate area. Wear self-contain necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.
SECTIC	ON 6. ACCIDENTAL RELE	AS	E MEASURES	
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	:		ing advice (see section 7) and personal ent recommendations (see section 8).
En	vironmental precautions	:	Retain and dispos	he environment. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages



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	ds and materials for nment 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	uum up spillage and collect in suitable osal. f dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
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 (Form of exposure)	Control parame- ters / Permissible concentration	Basis
4,4'-Methylenebis[3-hydroxy-2- naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1- methyl-2-[2-(2- thienyl)vinyl]pyrimidine (1:1)	22204-24-6	TWA	250 μg/m3 (OEB 2)	Internal
Propylene glycol	57-55-6	TWA	10 mg/m³	US WEEL
Ivermectin	70288-86-7	TWA	0.05 mg/m3 (OEB 3)	Internal



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			Further inform	ation: Skin			
				Wipe limit	0.5 mg/100 cm ²	Internal	
Engir	neering measures	:	design and op protect produ Containment are required t	berated in acco cts, workers, and technologies si to control at sou d to uncontrolle devices).	uld be implemented b ordance with GMP prin nd the environment. uitable for controlling urce and to prevent m ed areas (e.g., open-fa	compounds	
Perso	onal protective equip	ment					
Resp	iratory protection	:	maintain vapo concentration unknown, app Follow OSHA use NIOSH/M by air purifyin hazardous ch supplied resp release, expo	or exposures be as 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 li commended limits or atory protection shou ulations (29 CFR 191 d respirators. Protections gainst exposure to an d. Use a positive pres- any potential for uncount unknown, or any oth ying respirators may	mits. Where are Id be worn. 0.134) and on provided by ssure air controlled er	
Hand	protection		auequate pro				
Ма	aterial	:	Chemical-res	istant gloves			
	emarks protection	:	 Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condit mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists, 			conditions, nere is a	
 Skin and body protection Work uniform or laboratory coat. Additional body garments should be used based u task being performed (e.g., sleevelets, apron, gaur disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove contaminated clothing. 			untlets,				
Hygie	ne measures	:	If exposure to eye flushing s working place When using o Wash contam The effective engineering o 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 surveillanc	e review of equipment, cedures,	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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Арреа	arance	:	powder		
Color		:	brown		
Odor		:	No data available	9	
Odor	Threshold	:	No data available	9	
рН		:	4 - 6 (68 °F / 20 °C) (as aqueous solution)		
Meltin	ng point/freezing point	:	No data available	9	
Initial range	boiling point and boiling	:	No data available	9	
Flash	point	:	Not applicable		
Evapo	oration rate	:	Not applicable		
Flamr	nability (solid, gas)	:	May form explosing the handling or other	ive dust-air mixture during processing, means.	
Flamr	nability (liquids)	:	No data available	9	
	r explosion limit / Upper nability limit	:	No data available	9	
	r explosion limit / Lower nability limit	:	No data available	9	
Vapor	rpressure	:	Not applicable		
Relati	ve vapor density	:	Not applicable		
Relati	ve density	:	No data available	9	
Densi	ty	:	No data available	9	
	ility(ies) ater solubility	:	No data available	9	
	on coefficient: n- ol/water	:	log Pow: 3.22		
	gnition temperature	:	No data available	9	
Decor	mposition temperature	:	No data available	9	
Visco: Vis	sity scosity, kinematic	:	Not applicable		
Explo	sive properties	:	Not explosive		
Oxidiz	zing properties	:	: The substance or mixture is not classified as oxidizing.		



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Partic	cle size	:	No data availat	ble			
SECTION	10. STABILITY AND RI	EAC	TIVITY				
	tivity nical stability ibility of hazardous reac-						
Cond	itions to avoid	:	Heat, flames ar Avoid dust form				
	npatible materials rdous decomposition ucts	:	Oxidizing agen				
SECTION	11. TOXICOLOGICAL I	NFO	ORMATION				
Inhala Skin o Inges Eye o Acut o	contact tion contact e toxicity lassified based on availa						
	e oral toxicity	:	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method				
Com	ponents:						
	/lethylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl]			compound with (E)-1,4,5,6-tetrahydro-1-			
	e oral toxicity	:	LD50 (Rat): > 24	4,000 mg/kg			
			LD50 (Mouse): :	> 24,000 mg/kg			
			LD50 (Dog): 2,0	00 mg/kg			
Prop	ylene glycol:						
Acute	e oral toxicity	:	: LD50 (Rat): 22,000 mg/kg				
Acute	inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist				
Acute	e dermal toxicity	:	LD50 (Rabbit): > Assessment: Th toxicity	> 2,000 mg/kg e substance or mixture has no acute dermal			



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lverm	ectin:			
Acute	Acute oral toxicity		LD50 (Rat): 50	mg/kg
			LD50 (Mouse):	25 mg/kg
			Symptoms: Voi	: > 24 mg/kg Central nervous system miting, Dilatation of the pupil nortality observed at this dose.
Acute	inhalation toxicity	:	LC50 (Rat): 5.1 Exposure time: Test atmosphe	1 h _
Acute	dermal toxicity	:	LD50 (Rabbit):	406 mg/kg
			LD50 (Rat): > 6	60 mg/kg
	corrosion/irritation			
	assified based on ava	ilable	information.	
<u>Comp</u>	oonents:			
	/lene glycol:			
Speci		:	Rabbit	
Metho Resul		:	OECD Test Gu No skin irritatio	
Resul	L .	•	NO SKIT ITTALIO	
lverm	ectin:			
Speci	es	:	Rabbit	
Resul	t	:	No skin irritatio	n
Serio	us eye damage/eye i	rritati	on	
Not cl	assified based on ava	ilable	information.	
Comp	oonents:			
Propy	/lene glycol:			
Speci		:	Rabbit	
Resul	t	:	No eye irritation	
Metho	bd	:	OECD Test Gu	ideline 405
-	ectin:			
Speci		:	Rabbit	
Resul	t	:	Mild eye irritatio	on
Resp	iratory or skin sensit	tizatio	n	
Skin s	sensitization			
	assified based on ava	9-1-1-		





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Resp	iratory sensitizatior	n	
-	assified based on av		
Com	<u>oonents:</u>		
Prop	vlene glycol:		
Test	Type es of exposure es	: Maximizatior : Skin contact : Guinea pig : negative	
lverm	ectin:		
Route	es of exposure	: Dermal	
Speci Resul		: Humans	una alkin panaitization
Resu	l	. Does not cat	use skin sensitization.
Germ	cell mutagenicity		
Not cl	assified based on av	ailable information.	
Com	oonents:		
		oxy-2-naphthoic] ac nyl]pyrimidine (1:1):	cid, compound with (E)-1,4,5,6-tetrahydro-1-
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Propy	/lene glycol:		
	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			Chromosome aberration test in vitro CD Test Guideline 473 tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Intraperitoneal injection
lverm	ectin:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		thesis in mar	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) human diploid fibroblasts tive
		Test Type: N	louse Lymphoma





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Not c	nogenicity lassified based on ava <u>conents:</u>	ilable information.	
Speci Applio	cation Route sure time	: Rat : Ingestion : 2 Years : negative	
Speci Applio NOAE Resu Rema	cation Route EL It arks es cation Route EL It	: Mouse : Oral : 2.0 mg/kg body : negative	from similar materials
IARC	No ingredie	ent of this product pres	ent at levels greater than or equal to 0.1% is r confirmed human carcinogen by IARC.
OSH		ent of this product pre list of regulated carcir	esent at levels greater than or equal to 0.1% is nogens.
NTP			ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.
Not cl	oductive toxicity lassified based on ava ponents:	ilable information.	

4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

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.

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Ivermectin / Pyrantel Formulation

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Propy	lene glycol:			
Effects	s on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effects	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development e: Ingestion
lverm	ectin:			
Effects	s on fertility	:		-
Effects	s 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 assified based on availa	ble	information.	
	onents:			

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:		
lverr	nectin:		
	et Organs	: Central nervo	ous system
	essment		age to organs through prolonged or repeated
Repe	eated dose toxicity		
<u>Com</u>	ponents:		
	Methylenebis[3-hydr nyl-2-[2-(2-thienyl)vin		cid, compound with (E)-1,4,5,6-tetrahydro-1-
Spec		: Dog	
NOA		: 10 mg/kg	
LOA		: 30 mg/kg	
	ication Route	: Ingestion : 3 d	
Rem			t adverse effects were reported
Spec	cies	: Dog	
NOA		: 600 mg/kg	
	ication Route	: Oral	
	sure time	: 19 d	
Rem	arks	: No significan	t adverse effects were reported
Spec		: Dog	
NOA		: 600 mg/kg	
	ication Route	: Oral : 30 d	
Rem	osure time arks		t adverse effects were reported
Kem	ano	. No significan	
Spec		: Dog	
NOA		: 600 mg/kg	
	ication Route	: Oral : 90 d	
Rem			t adverse effects were reported
Pron	oylene glycol:		
Spec		: Rat, male	
NOA		: >= 1,700 mg	/kg
	ication Route	: Ingestion	
Expo	osure time	: 2 y	
lverr	nectin:		
Spec		: Dog	
NOA		: 0.5 mg/kg	
LOA		: 1 mg/kg	
	ication Route	: Oral	
	osure time et Organs	: 14 Weeks : Central nerve	ous system
	ptoms		the pupil, Tremors, Lack of coordination, anorexia
-,	-		



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	EL cation Route sure time	 Monkey 1.2 mg/kg Oral 2 Weeks No significant adverse effects were reported 	
Expo	EL	 Rat 0.4 mg/kg 0.8 mg/kg Oral 3 Months spleen, Bone marrow, Kidney 	
Not c	ration toxicity classified based on ava crience with human e		
<u>Com</u>	ponents:		
	Methylenebis[3-hydro yl-2-[2-(2-thienyl)vin	y-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahyd pyrimidine (1:1):	r o-1-
Inges	stion	: Symptoms: Abdominal pain, Nausea, Vomiting, Diarrhe Headache, Dizziness, Fever	∋a,
Skin	nectin: contact contact stion	 Remarks: Can be absorbed through skin. Remarks: May irritate eyes. Symptoms: Drowsiness, Dilatation of the pupil, Tremor iting, anorexia, Lack of coordination 	s, Vom-

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
<u>Product:</u> 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



sion	Revision Date: 08/27/2021	-	0S Number: 652-00019	Date of last issue: 10/10/2020 Date of first issue: 02/02/2015
<u>Comp</u>	oonents:			
	lethylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl]			l, compound with (E)-1,4,5,6-tetrahydro-1
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	Toxic effects ca	annot be excluded
Chror	nic aquatic toxicity	:	Toxic effects ca	annot be excluded
Propy	/lene glycol:			
	ity to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 40,613 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Cerioda Exposure time:	phnia dubia (water flea)): 18,340 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	Exposure time:	onema costatum (marine diatom)): 19,300 m 72 h 9 Test Guideline 201
	ty to daphnia and other ic invertebrates (Chron- city)		NOEC (Cerioda Exposure time:	aphnia dubia (water flea)): 13,020 mg/l 7 d
	ity to microorganisms	:	NOEC (Pseudo Exposure time:	omonas putida): > 20,000 mg/l 18 h
lverm	ectin:			
Toxici	ty to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 0.003 mg/l 96 h
			LC50 (Lepomis Exposure time:	s macrochirus (Bluegill sunfish)): 0.0048 mg 96 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	a magna (Water flea)): 0.000025 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 9 72 h 9 Test Guideline 201
			mg/l Exposure time:	okirchneriella subcapitata (green algae)): 9.7 72 h 9 Test Guideline 201
Persi	stence and degradabil	ity		
<u>Produ</u>	uct:			
Biode	gradability	:	Result: Not rea Biodegradation Exposure time:	



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Com				
	ponents:			
	ylene glycol: egradability	Bio Exp	degradation	
lvern	nectin:			
Biode	egradability	Bio	sult: Not readegradation	
Bioa	ccumulative potentia	l		
Prod	uct:			
Bioac	cumulation	: Biod	concentrati	on factor (BCF): 74
<u>Com</u>	ponents:			
Prop	ylene glycol:			
	ion coefficient: n- ol/water		Pow: -1.07 hod: Regul	ation (EC) No. 440/2008, Annex, A.8
lverm	nectin:			
Bioac	cumulation	: Biod	concentrati	on factor (BCF): 74
	ion coefficient: n- ol/water	: log	Pow: 3.22	
Mobi	lity in soil			
No da	ata available			
	r adverse effects ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

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



Versior 7.5	n Revision Date: 08/27/2021	SDS Number:Date of last issue: 10/10/202052652-00019Date of first issue: 02/02/2015	
Pa	ass acking group ibels	N.O.S. (Ivermectin) : 9 : III : 9	
U	TA-DGR N/ID No. oper shipping name	 : UN 3077 : Environmentally hazardous substance, solid, n.o.s. (Ivermectin) 	
Pa La Pa	ass acking group ibels acking instruction (cargo	: 9 : III : Miscellaneous : 956	
Pa ge	rcraft) acking instruction (passen- er aircraft) avironmentally hazardous	: 956 : yes	
U	I DG-Code N number oper shipping name	 UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI N.O.S. (Ivermectin) 	D,
Pa La Er	ass acking group ibels nS Code arine pollutant	: 9 : III : 9 : F-A, S-F : yes	
		to Annex II of MARPOL 73/78 and the IBC Code	
	ot applicable for product as	upplied.	
Do	omestic regulation		
UI Pr	O CFR N/ID/NA number oper shipping name	 : UN 3077 : Environmentally hazardous substance, solid, n.o.s. (Ivermectin) 	
	ass acking group	: 9 : III	

Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(Ivermectin)
Remarks	:	Above applies only to containers over 119 gallons or 450
		liters., 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 w known CAS numbers that exceed the threshold (De Minimi reporting levels established by SARA Title III, Section 313.	is)

US State Regulations

Pennsylvania Right To Know

Soybean proteins 4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2- thienyl)vinyl]pyrimidine (1:1)	9010-10-0 22204-24-6
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.

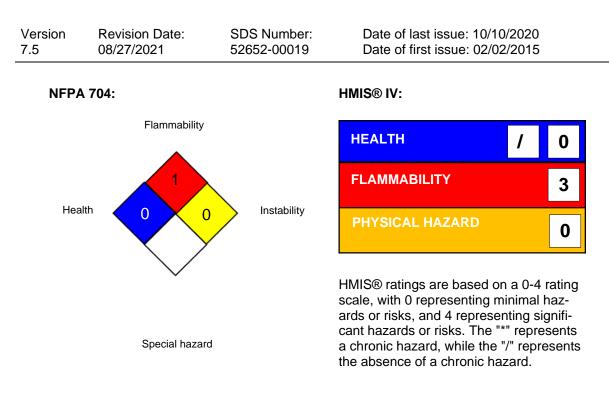
The ingredients of this product are reported in the following inventories:

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						
comp	ees of key data used to ile the Material Safety Sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- opa.eu/		
Revis	ion Date	:	08/27/2021			
The :	-formation muscided in	41- 1-		et is served to the best of our broudedes		

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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