

according to the OSHA Hazard Communication Standard

# **Ivermectin Solid Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
14.1	09/30/2023	412868-00028	Date of first issue: 01/07/2016

### **SECTION 1. IDENTIFICATION**

Product name	:	Ivermectin Solid Formulation			
Manufacturer or supplier's	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 chemical and restrictions on use					
Recommended use Restrictions on use	:	Pharmaceutical Not applicable			

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

1910.1200)Combustible dustAcute toxicity (Oral)Specific target organ toxicity- single exposure (Oral)Specific target organ toxicity- repeated exposure (Oral)EHS label elementsHazard pictograms:	on Standard (29 CFR
Specific target organ toxicity       : Category 1 (Central nervous system)         - single exposure (Oral)       : Category 1 (Central nervous system)         - repeated exposure (Oral)       : Category 1 (Central nervous system)         GHS label elements       : Category 1 (Central nervous system)	
<ul> <li>single exposure (Oral)</li> <li>Specific target organ toxicity : Category 1 (Central nervous system)</li> <li>repeated exposure (Oral)</li> <li>GHS label elements</li> </ul>	
- repeated exposure (Oral) GHS label elements	
Signal Word : Danger	
<ul> <li>Hazard Statements</li> <li>If small particles are generated during further processing, dling or by other means, may form combustible dust concertions in air.</li> <li>H302 Harmful if swallowed.</li> <li>H370 Causes damage to organs (Central nervous system swallowed.</li> <li>H372 Causes damage to organs (Central nervous system through prolonged or repeated exposure if swallowed.</li> </ul>	ustible dust concentra- I nervous system) if I nervous system)
Precautionary Statements : Prevention: P260 Do not breathe dust. P264 Wash skin thoroughly after handling.	g.





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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.

#### Storage:

P405 Store locked up.

### **Disposal:**

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

## 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)
Cellulose	9004-34-6	77.1
Starch	9005-25-8	14.6
Ivermectin	70288-86-7	7.5

#### **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. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	
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. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.



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	ction of first-aiders s to physician	:	and use the rec when the poten	nders should pay attention to self-protection, commended personal protective equipment tial for exposure exists (see section 8). atically and supportively.
			, ,	
SECTION	5. FIRE-FIGHTING ME	430	IRES	
Suita	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
Spec fightir	ific hazards during fire	:	concentrations, potential dust e	ng dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a xplosion hazard. mbustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides	
Spec ods	ific extinguishing meth-	:	cumstances an Use water spra	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. naged containers from fire area if it is safe to do
	ial protective equipment e-fighters	:	In the event of	ire, wear self-contained breathing apparatus. rotective 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. 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	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. 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





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			certain local or	national requirements.
SECTION	7. HANDLING AND ST	ſOR	AGE	
Techr	nical measures	:	causing an exp Provide adequ	y may accumulate and ignite suspended dust plosion. ate precautions, such as electrical grounding or inert atmospheres.
Local	/Total ventilation			adequate ventilation.
	e on safe handling	:	Do not breathe	
710710	o on oaro nanaling	•	Do not swallow	
			Avoid contact	
				ed or repeated contact with skin.
				roughly after handling.
				ordance with good industrial hygiene and safe d on the results of the workplace exposure
				generation and accumulation.
				r closed when not in use.
				m heat and sources of ignition.
			Take precautic Do not eat, drii	nary measures against static discharges. nk or smoke when using this product.
			environment.	revent spills, waste and minimize release to the
Cond	itions for safe storage			ly labeled containers.
Conta	literio fer bare eterage	•	Store locked u	
				dance with the particular national regulations.
Mater	ials to avoid	:		ith the following product types:
			Strong oxidizin	
			•	ubstances and mixtures
			Organic peroxi	des
			Explosives	
			Gases	

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction)



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		Basis: OSHA	Z-3						
Dust, nuisance dust and par- ticulates			10 mg/m³ Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL						
		5 mg/m³ Value type (Fo Basis: CAL PI		: PEL (respirable dus	t fraction)				
Comp	oonents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
Cellul	ose	9004-34-6	TŴA	10 mg/m <sup>3</sup>	ACGIH				
-			TWA (Res- pirable)	5 mg/m <sup>3</sup>	NIOSH REL				
			TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL				
-			TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1				
			TWA (respir- able fraction)	5 mg/m³	OSHA Z-1				
Starc	h	9005-25-8	TWA	10 mg/m <sup>3</sup>	ACGIH				
			TWA (Res- pirable)	5 mg/m³	NIOSH REL				
			TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL				
			TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1				
			TWA (respir- able fraction)	5 mg/m³	OSHA Z-1				
lverm	ectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal				
		Further inform	ation: Skin						
			Wipe limit	300 µg/100 cm2	Internal				

Engineering measures : 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 maintain vapor exposures below recommended limits. Where 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 provided 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



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Hand protection		circumstance adequate prot	where air purifying respirators may not provide ection.				
Ma	aterial	: Chemical-resi	: Chemical-resistant gloves				
Remarks Eye protection		: Wear safety g If the work en mists or aeros Wear a facesł	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols				
Skin and body protection		: Work uniform Additional boo task being per disposable su Use appropria	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.				
Hygiene measures		: If exposure to eye flushing s working place When using d Wash contam The effective engineering co appropriate de industrial hygi	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.				

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.



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Flamn	nability (liquids)	:	Not applicable	
	explosion limit / Upper ability limit	:	No data available	
	explosion limit / Lower ability limit	:	No data available	
Vapor	pressure	:	Not applicable	
Relativ	ve vapor density	:	Not applicable	
Relativ	ve density	:	No data available	
Densit	ty	:	No data available	
	lity(ies) ater solubility	:	No data available	
	on coefficient: n- bl/water	:	Not applicable	
	inition temperature	:	No data available	
Decor	nposition temperature	:	No data available	
Viscos Vis	sity cosity, kinematic	:	Not applicable	
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance of	mixture is not classified as oxidizing.
Molec	ular weight	:	No data available	•
Particl	e size	:	No data available	•

## SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.



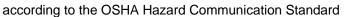


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### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely rout Inhalation Skin contact Ingestion	es of	exposure
Eye contact <b>Acute toxicity</b> Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 666.67 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Starch:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
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





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### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Ivermectin:

Species	:	Rabbit
Result	:	No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

### **Components:**

#### Starch:

Species	:	Rabbit
Result	:	No eye irritation

#### Ivermectin:

Species	:	Rabbit
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:**

#### Starch:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

#### Ivermectin:

Routes of exposure	:	Dermal
Species	:	Humans
Result	:	Does not cause skin sensitization.

### Germ cell mutagenicity

Not classified based on available information.

## Components:

#### Cellulose:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)



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		Result: nega	tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
Starc	h:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
lverm	nectin:		
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: M Result: nega	louse Lymphoma tive
	nogenicity lassified based on av	allable information	
	oonents:		
Cellu			
	cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
lverm	nectin:		
Speci Applic NOAE Resul Rema	cation Route EL It	: Rat : Oral : 1.5 mg/kg bo : negative : Based on da	ody weight ta from similar materials
Speci Applic NOAE Resul Resul	cation Route EL It	: Mouse : Oral : 2.0 mg/kg bo : negative : Based on da	ody weight ta from similar materials



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ľ	ARC					at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.		
C	OSHA				this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.		
Ν	NTP			No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.				
	-		<b>toxicity</b> based on availa	ble	information.			
<u>c</u>	Compo	onents:						
	<b>Cellulo</b> Effects	se: on fertil	lity	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion		
E	Effects	on feta	l development	:	Test Type: Fertility Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion		
İv	verme	ctin:						
E	Effects	on ferti	lity	:				
E	Effects	on feta	l development	:	Result: Teratogen			
					Result: Embryotox offspring were det	: Oral oxicity: LOAEL: 0.4 mg/kg body weight kic effects and adverse effects on the		
					Test Type: Develo Species: Rabbit Application Route Result: Teratogen			





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		effects on the of toxic doses	fspring were detected only at high maternally
	-single exposure	(Control nonvouo ovotor	n) if averallowed
	onents:	(Central nervous syster	n) il swallowed.
	ectin:	· Control nonvouo	aveter
	et Organs ssment	: Central nervous : Causes damage	
STOT	-repeated exposure	•	
	es damage to organs		n) through prolonged or repeated exposure i
<u>Com</u>	oonents:		
lverm	nectin:		
	et Organs ssment	: Central nervous : Causes damage exposure.	system to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
Cellu	lose:		
Speci		: Rat	
NOAE		: >= 9,000 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
Starc	h:		
Speci		: Rat	
NOAE		: >= 2,000 mg/kg : Skin contact	
	cation Route sure time	: 28 Days	
Metho		: OECD Test Gui	deline 410
lverm	nectin:		
Speci		: Dog	
NOAE		: 0.5 mg/kg	
LOAE	:L cation Route	: 1 mg/kg : Oral	
	sure time	: 14 Weeks	
Targe	et Organs	: Central nervous	
Symp	toms	: Dilatation of the	pupil, Tremors, Lack of coordination, anorex
Speci	es	: Monkey	
NOAE			



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	cation Route sure time arks	<ul> <li>Oral</li> <li>2 Weeks</li> <li>No significant adverse effects were reported</li> </ul>
Expo	ΞL	<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>
Not c	ration toxicity lassified based on ava rience with human ex	
<u>Com</u>	ponents:	
Skin	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 pupil, Tremors, Vom- iting, anorexia, Lack of coordination</li> </ul>
SECTION	12. ECOLOGICAL IN	DRMATION
Ecote	oxicity	
Com	ponents:	
<b>Cellu</b> Toxic	<b>lose:</b> ity to fish	: LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h

#### . - - 4 -

Ivermectin:		
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

Remarks: Based on data from similar materials



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		Method: OE	CD Test Guideline 201
Persi	istence and degrada	bility	
Com	ponents:		
	<b>ilose:</b> egradability	: Result: Read	lily biodegradable.
lvern	nectin:		
Biode	egradability	: Result: Not r Biodegradati Exposure tin	
Bioa	ccumulative potentia	al	
Com	ponents:		
-	nectin: ccumulation	: Bioconcentra	ation factor (BCF): 74
	tion coefficient: n- nol/water	: log Pow: 3.2	2
	i <b>lity in soil</b> ata available		
	<b>r adverse effects</b> ata available		

Disposal methods	
Waste from residues	: Dispose of in accordance with local regulations.
Contaminated packaging	Do not dispose of waste into sewer. Empty containers should be taken to an approved waste
Containinated publicaging	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, N.O.S. (Ivermectin)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes



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<b>IATA-</b> UN/ID Prope		:	UN 3077 Environmentally I (Ivermectin)	nazardous substance, solid, n.o.s.
Labels Packir	ng instruction (cargo	:	9 III Miscellaneous 956	
ger ai	ng instruction (passen-		956 yes	
UN nu	<b>-Code</b> ımber r shipping name	:	UN 3077 ENVIRONMENT, N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Labels EmS (		:	9 III 9 F-A, S-F yes	
	port in bulk according	-		OL 73/78 and the IBC Code
Dome	estic regulation			
Prope Class Packir Labels ERG (	/NA number r shipping name ng group s Code e pollutant		(Ivermectin) 9 III CLASS 9 171 yes(Ivermectin) Above applies on liters. Shipment by grou may be shipped p	nazardous substance, solid, n.o.s. ly to containers over 119 gallons or 450 and under DOT is non-regulated; however it ber the applicable hazard classification to odal 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.



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#### 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 Acute toxicity (any route of exposure) 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.
US State Regulations		

Pennsylvania Right To Know

9004-34-6 9005-25-8 70288-86-7

#### 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.

#### California Permissible Exposure Limits for Chemical Contaminants

Cellulose	9004-34-6
Starch	9005-25-8

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

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

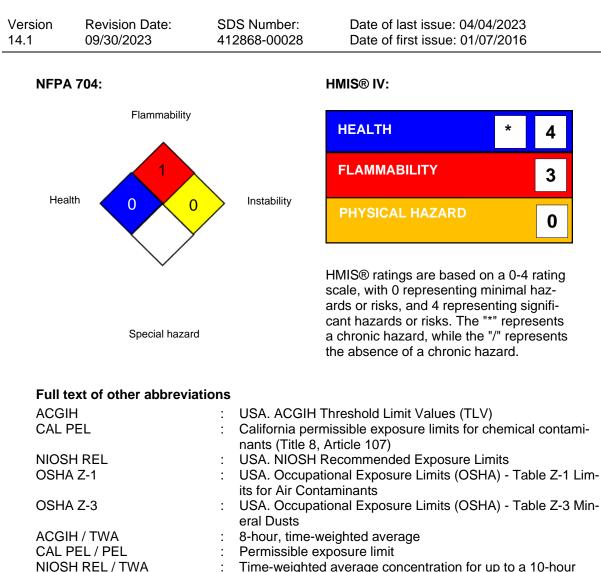
### **SECTION 16. OTHER INFORMATION**

**Further information** 



according to the OSHA Hazard Communication Standard

## Ivermectin Solid Formulation



OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / 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 Pre-



# according to the OSHA Hazard Communication Standard

## Ivermectin Solid Formulation

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vention 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/

09/30/2023

Revision Date :

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