



Version 9.2	Revision Date: 06.04.2024		S Number: 2850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016	
	1: IDENTIFICATION uct name	:	Ivermectin Solid	Formulation	
Manu	Ifacturer or supplier's d	letai	ls		
Comp	bany	:	MSD		
Addre	ess	:		el 1/26 Talavera Rd NSW, Australia 2113	
Telep	hone	:	1 800 033 461		
Emer	gency telephone number	:	Poisons Informat	ion Centre: Phone 13 11 26	
E-ma	E-mail address		EHSDATASTEWARD@msd.com		
Reco	mmended use of the ch	nem	ical and restriction	ons on use	
Reco	mmended use	:	Pharmaceutical		
Restr	ictions on use	:	Not applicable		
SECTION	2. HAZARDS IDENTIFI	САТ	ION		
GHS	Classification				
Acute	e toxicity (Oral)	:	Category 4		

,		Category 4
	:	Category 2 (Central nervous system)
	:	Category 2 (Central nervous system)
	:	
rd	:	Warning
atements	:	 H302 Harmful if swallowed. H371 May cause damage to organs (Central nervous system) if swallowed. H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.
nary statements	:	Prevention: P260 Do not breathe dust.
	oosure (Oral)	arget organ toxicity - : posure (Oral) arget organ toxicity - : exposure (Oral) el elements ctograms : rd : atements :





Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
9.2	06.04.2024	412850-00028	Date of first issue: 07.01.2016

P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 60 -<= 100
Starch	9005-25-8	>= 10 -< 30
Ivermectin	70288-86-7	>= 1 -< 10

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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	:	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	:	Harmful if swallowed.
and effects, both acute and		May cause damage to organs if swallowed.
delayed		May cause damage to organs through prolonged or repeated exposure if swallowed.



Versio 9.2	on	Revision Date: 06.04.2024	-	DS Number:Date of last issue: 30.09.20232850-00028Date of first issue: 07.01.2016
		on of first-aiders	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. 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).
		o physician FIREFIGHTING MEA	:	Treat symptomatically and supportively.
		e extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2)
	Unsuita media	ble extinguishing	:	Dry chemical None known.
Ś		hazards during fire-	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides
	Specific ods	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.
f	or firefi	protective equipment ghters m Code	:	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 2Z
SECT	FION 6.	ACCIDENTAL RELE	ASE	E MEASURES
t	tive equ	al precautions, protec- lipment and emer- procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
E	Environ	mental 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.
		s and materials for ment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer 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 surfac- es, as these may form an explosive mixture if they are re-





Version 9.2	Revision Date: 06.04.2024	SDS Number: 412850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016
		Local or nation posal of this ma employed in th mine which reg Sections 13 an	atmosphere in sufficient concentration. al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- gulations are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nical measures	causing an exp Provide adequa	y may accumulate and ignite suspended dust blosion. ate precautions, such as electrical grounding or inert atmospheres.
Loca	I/Total ventilation		adequate ventilation.
	ce on safe handling	: Do not breathe Do not swallow Avoid contact v Avoid prolonge Wash skin thor Handle in acco practice, based sessment Minimize dust g Keep contained Keep away froi Take precautio Do not eat, drir	dust. /.
Hygie	ene measures	 environment. If exposure to of flushing system place. When using do Wash contamin The effective of engineering co appropriate de industrial hygie 	chemical is likely during typical use, provide eye ns and safety showers close to the working not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the
Conc	litions for safe storage	: Keep in proper Store locked up	trative controls. ly labelled containers. p. lance with the particular national regulations.
Mate	rials to avoid		ith the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

•	•	•			
Components		CAS-No.	Value type	Control parame-	Basis



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023	
9.2	06.04.2024	412850-00028	Date of first issue: 07.01.2016	

		(Form of	ters / Permissible	
		exposure)	concentration	
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH
Starch	9005-25-8	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH
Ivermectin	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 compound are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.	
Personal protective equipmen	t	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.	
Filter type : Hand protection	Particulates type	
Material :	Chemical-resistant gloves	
Remarks : Eye protection :	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 or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: No data available
Odour	: No data available
Odour Threshold	: No data available

SAFETY DATA SHEET



		412	2850-00028	Date of first issue: 07.01.2016	
pН		:	No data available	9	
Meltin	g point/freezing point	:	No data available	9	
Initial I range	boiling point and boiling	:	No data available	9	
Flash	point	:	Not applicable		
Evapo	pration rate	:	Not applicable		
Flamm	nability (solid, gas)	:	May form explosive dust-air mixture during processing, ha dling or other means.		
Flamm	nability (liquids)	:	Not applicable		
	explosion limit / Upper ability limit	:	No data available	9	
	explosion limit / Lower ability limit	:	No data available	2	
Vapou	ır pressure	:	Not applicable		
Relativ	ve vapour density	:	Not applicable		
Relativ	ve density	:	No data available	9	
Densit	ty	:	No data available	9	
	ility(ies) ater solubility	:	No data available	9	
	on coefficient: n-	:	Not applicable		
	ol/water gnition temperature	:	No data available	e	
Decon	nposition temperature	:	No data available	9	
Viscos Vis	sity cosity, kinematic	:	Not applicable		
Explos	sive properties	:	Not explosive		
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.	
Molec	ular weight	:	No data available	9	
Particl Particl	le characteristics le size	:	No data available	9	



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
9.2	06.04.2024	412850-00028	Date of first issue: 07.01.2016

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, han- dling 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.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 666.67 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 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





Version 9.2	Revision Date: 06.04.2024		0S Number: 2850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016
			LD50 (Mouse): 2	o mg/kg
			Symptoms: Vomi	> 24 mg/kg central nervous system ting, Dilatation of the pupil rtality observed at this dose.
Acute	e inhalation toxicity	:	LC50 (Rat): 5.11 Exposure time: 1 Test atmosphere	h
Acute	e dermal toxicity	:	LD50 (Rabbit): 40	06 mg/kg
			LD50 (Rat): > 660) mg/kg
-	corrosion/irritation	ailable	information.	
Com	ponents:			
lvern	nectin:			
Spec Resu		:	Rabbit No skin irritation	
	ous eye damage/eye i lassified based on ava			
Com	ponents:			
Stard	ch:			
Spec		:	Rabbit	
Resu	lit	:	No eye irritation	
lvern	nectin:			
Spec Resu		:	Rabbit Mild eye irritation	
Resp	piratory or skin sensi	tisatio	on	
-	sensitisation	ailable	information.	
-	biratory sensitisation classified based on ava		information.	
<u>Com</u>	ponents:			
Starc Test		:	Maximisation Tes	st
	sure routes	:	Skin contact	



Version 9.2	Revision Date: 06.04.2024	SDS Number: 412850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016			
Spec Resu		: Guinea pig : negative				
lvern	nectin:					
Expo Spec Resu		: Dermal : Humans : Does not c				
Chro	nic toxicity					
	n cell mutagenicity lassified based on av	ailable information.				
	<u>ponents:</u>					
	l lose: otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) pative			
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative			
Geno	otoxicity in vivo	cytogenetic Species: M	ouse Route: Ingestion			
Starc	:h:					
Geno	otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative			
lvern	nectin:					
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) pative			
		thesis in m	DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) n: human diploid fibroblasts jative			
		Test Type: Result: neç	Mouse Lymphoma jative			

Carcinogenicity

Not classified based on available information.



sion	Revision Date: 06.04.2024	SDS Number: 412850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016
Comp	oonents:		
Cellu	lose:		
Speci	es	: Rat	
	ation Route	: Ingestion	
Expos	sure time	: 72 weeks : negative	
itesui	l .	. negative	
lverm	ectin:		
Speci		: Rat	
	cation Route	: Oral	
NOAE Resul		: 1.5 mg/kg bod : negative	y weight
Rema			from similar materials
Speci	es cation Route	: Mouse : Oral	
NOAE		: 2.0 mg/kg bod	v weight
Resul		: negative	, no.g.t.
Rema	urks		• • • • • • •
Repro	oductive toxicity assified based on ava		from similar materials
Repro Not cl <u>Comp</u>	oductive toxicity assified based on ava ponents:		i from similar materials
Repro Not cl <u>Comp</u> Cellul	oductive toxicity assified based on ava ponents: lose:	ilable information.	
Repro Not cl <u>Comp</u> Cellul	oductive toxicity assified based on ava ponents:	ilable information. : Test Type: On	e-generation reproduction toxicity study
Repro Not cl <u>Comp</u> Cellul	oductive toxicity assified based on ava ponents: lose:	ilable information.	e-generation reproduction toxicity study
Repro Not cl <u>Comp</u> Cellul	oductive toxicity assified based on ava ponents: lose:	ilable information. : Test Type: On Species: Rat	e-generation reproduction toxicity study oute: Ingestion
Repro Not cl <u>Comp</u> Cellul Effect	oductive toxicity assified based on ava ponents: lose:	illable information. : Test Type: On Species: Rat Application Ro Result: negativ : Test Type: Fe	e-generation reproduction toxicity study oute: Ingestion
Repro Not cl <u>Comp</u> Cellul Effect	oductive toxicity assified based on ava <u>oonents:</u> lose: s on fertility	illable information. : Test Type: On Species: Rat Application Ro Result: negativ : Test Type: Fe Species: Rat	e-generation reproduction toxicity study oute: Ingestion ve rtility/early embryonic development
Repro Not cl Comp Cellul Effect	oductive toxicity assified based on ava <u>oonents:</u> lose: s on fertility	ilable information. : Test Type: On Species: Rat Application Ro Result: negativ : Test Type: Fe Species: Rat Application Ro	e-generation reproduction toxicity study oute: Ingestion ve rtility/early embryonic development oute: Ingestion
Repro Not cl Comp Cellul Effect	oductive toxicity assified based on ava <u>oonents:</u> lose: s on fertility	illable information. : Test Type: On Species: Rat Application Ro Result: negativ : Test Type: Fe Species: Rat	e-generation reproduction toxicity study oute: Ingestion ve rtility/early embryonic development oute: Ingestion
Repro Not cl Comp Cellul Effect	oductive toxicity assified based on ava <u>oonents:</u> lose: s on fertility	ilable information. : Test Type: On Species: Rat Application Ro Result: negativ : Test Type: Fe Species: Rat Application Ro	e-generation reproduction toxicity study oute: Ingestion ve rtility/early embryonic development oute: Ingestion
Repro Not cl Comp Cellul Effect Effect ment	oductive toxicity assified based on ava oonents: lose: s on fertility s on foetal develop-	ilable information. : Test Type: On Species: Rat Application Ro Result: negativ : Test Type: Fe Species: Rat Application Ro Result: negativ : Test Type: Fe	e-generation reproduction toxicity study oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve
Repro Not cl Comp Cellul Effect Effect ment	oductive toxicity assified based on ava <u>conents:</u> lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ 	e-generation reproduction toxicity study oute: Ingestion /e rtility/early embryonic development oute: Ingestion /e
Repro Not cl Comp Cellul Effect Effect ment	oductive toxicity assified based on ava <u>conents:</u> lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro 	e-generation reproduction toxicity study oute: Ingestion /e rtility/early embryonic development oute: Ingestion /e rtility
Repro Not cl Comp Cellul Effect Effect ment	oductive toxicity assified based on ava <u>conents:</u> lose: s on fertility s on foetal develop-	 ilable information. Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Fertility: NOAE 	e-generation reproduction toxicity study oute: Ingestion /e rtility/early embryonic development oute: Ingestion /e rtility pute: Oral EL: 0.6 mg/kg body weight
Repro Not cl Comp Cellul Effect Effect ment	oductive toxicity assified based on ava oonents: lose: s on fertility s on foetal develop- ectin: s on fertility	 ilable information. Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Fertility: NOAE Result: Anima 	e-generation reproduction toxicity study oute: Ingestion /e rtility/early embryonic development oute: Ingestion /e rtility pute: Oral EL: 0.6 mg/kg body weight I testing did not show any effects on fertility.
Repro Not cl Comp Cellul Effect Effect ment	oductive toxicity assified based on ava <u>conents:</u> lose: s on fertility s on foetal develop-	 ilable information. Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Fertility: NOAE 	e-generation reproduction toxicity study oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility ette: Oral EL: 0.6 mg/kg body weight I testing did not show any effects on fertility.
Repro Not cl Comp Cellul Effect Effect Nerm Effect	oductive toxicity assified based on ava oonents: lose: s on fertility s on foetal develop- ectin: s on fertility	 ilable information. Test Type: On Species: Rat Application Ro Result: negative Test Type: Fer Species: Rat Application Ro Result: negative Test Type: Fer Species: Rat Application Ro Fertility: NOAE Result: Anima Test Type: De Species: Mous Application Ro 	e-generation reproduction toxicity study oute: Ingestion /e rtility/early embryonic development oute: Ingestion /e rtility pute: Oral EL: 0.6 mg/kg body weight I testing did not show any effects on fertility. velopment se oute: Oral
Repro Not cl Comp Cellul Effect Effect Nerm Effect	oductive toxicity assified based on ava oonents: lose: s on fertility s on foetal develop- ectin: s on fertility	 Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Fertility: NOAE Result: Anima Test Type: De Species: Mous Application Ro Developmenta 	e-generation reproduction toxicity study pute: Ingestion /e rtility/early embryonic development pute: Ingestion /e rtility pute: Oral EL: 0.6 mg/kg body weight I testing did not show any effects on fertility. velopment se pute: Oral I Toxicity: NOAEL: 0.2 mg/kg body weight
Repro Not cl Comp Cellul Effect Effect Nerm Effect	oductive toxicity assified based on ava oonents: lose: s on fertility s on foetal develop- ectin: s on fertility	 ilable information. Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Fertility: NOAE Result: Anima Test Type: De Species: Mous Application Ro Developmenta Result: Terato 	e-generation reproduction toxicity study oute: Ingestion /e rtility/early embryonic development oute: Ingestion /e rtility pute: Oral EL: 0.6 mg/kg body weight I testing did not show any effects on fertility. velopment se oute: Oral





Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
9.2	06.04.2024	412850-00028	Date of first issue: 07.01.2016

Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 0.4 mg/kg body weight Result: Embryotoxic effects and adverse effects on the offspring were detected. Remarks: The mechanism or mode of action may not be relevant in humans.

Test Type: Development Species: Rabbit Application Route: Oral Result: Teratogenic effects, Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

STOT - single exposure

May cause damage to organs (Central nervous system) if swallowed.

Components:

Ivermectin:

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

STOT - repeated exposure

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.

Components:

Ivermectin:

Target Organs	:	Central nervous system
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Cellulose:		
Species	:	Rat
NOAEL		>= 9,000 mg/kg
Application Route		Ingestion
Exposure time	:	90 Days
Starch:		

Species	:	Rat
NOAEL	:	>= 2,000 mg/kg
Application Route	:	Skin contact



9.2	Revision Date: 06.04.2024	SDS Number: 412850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016
Expo Metho	sure time od	: 28 Days : OECD Test G	Guideline 410
lverm	nectin:		
Expo	EL EL cation Route sure time et Organs	: Dog : 0.5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervo : Dilatation of t	us system he pupil, Tremors, Lack of coordination, anorex
	EL cation Route sure time	: Monkey : 1.2 mg/kg : Oral : 2 Weeks : No significant	adverse effects were reported
Species:RatNOAEL:0.4 mg/kgLOAEL:0.8 mg/kgApplication Route:OralExposure time:3 MonthsTarget Organs:spleen, Bone marrow, Kidn		marrow, Kidney	
raige	0	• •	
Aspir	ration toxicity		
Aspir Not c	ration toxicity	ailable information.	
Aspir Not c Expe	ration toxicity lassified based on ava	ailable information.	
Aspir Not c Expe <u>Com</u> Iverm Skin d	ration toxicity lassified based on ava rience with human e ponents: nectin: contact contact	ailable information. exposure : Remarks: Ca : Remarks: Ma : Symptoms: D	n be absorbed through skin. y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vo a, Lack of coordination
Aspir Not c Expe <u>Com</u> Iverm Skin o Eye c Inges	ration toxicity lassified based on ava rience with human e ponents: nectin: contact contact	ailable information. exposure : Remarks: Ca : Remarks: Ma : Symptoms: D iting, anorexia	y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vo
Aspir Not c Expe <u>Com</u> Iverm Skin o Eye c Inges	ration toxicity lassified based on avaination to avain the second	ailable information. exposure : Remarks: Ca : Remarks: Ma : Symptoms: D iting, anorexia	y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vo
Aspir Not c Expe Com Iverm Skin o Eye c Inges	ration toxicity lassified based on ava rience with human e ponents: nectin: contact contact tion	ailable information. exposure : Remarks: Ca : Remarks: Ma : Symptoms: D iting, anorexia	y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vo
Aspir Not c Expe Com Iverm Skin o Eye c Inges	ration toxicity lassified based on avaination to avain the sector of the	ailable information. exposure : Remarks: Ca : Remarks: Ma : Symptoms: D iting, anorexia	y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vo
Aspir Not c Expe <u>Com</u> Iverm Skin o Eye c Inges SECTION Ecoto <u>Com</u> Cellu	ration toxicity lassified based on avaination to avain the sector of the	ailable information. exposure : Remarks: Cal : Remarks: Ma : Symptoms: D iting, anorexia NFORMATION : LC50 (Oryzia Exposure time	y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vo a, Lack of coordination s latipes (Japanese medaka)): > 100 mg/l
Aspir Not c Expe Com Iverm Skin o Eye o Inges SECTION Ecoto Com Cellu Toxic	ration toxicity lassified based on avaination to avain the second and the second and the second and the second act the second	ailable information. exposure : Remarks: Cal : Remarks: Ma : Symptoms: D iting, anorexia NFORMATION : LC50 (Oryzia Exposure time	y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vo a, Lack of coordination s latipes (Japanese medaka)): > 100 mg/l e: 48 h





rsion	Revision Date: 06.04.2024	-	0S Number: 2850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016	
			Exposure time:	96 h	
			LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 0.0048 mg/ 96 h	
	ty to daphnia and other	r:	EC50 (Daphnia Exposure time:	magna (Water flea)): 0.000025 mg/l 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 		
Persi	stence and degradabi	lity			
Comp	oonents:				
Cellu Biode	lose: gradability	:	Result: Readily	biodegradable.	
	ectin: gradability	:	: Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 240 d		
Bioad	cumulative potential				
<u>Comp</u>	oonents:				
	ectin: cumulation	:	Bioconcentratic	on factor (BCF): 74	
	on coefficient: n- ol/water	:	: log Pow: 3.22		
	ity in soil Ita available				
	adverse effects ata available				

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





ersion .2	Revision Date: 06.04.2024	-	0S Number: 2850-00028	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016
Conta	minated packaging	:	dling site for re-	ers should be taken to an approved waste han- cycling or disposal. e specified: Dispose of as unused product.
	14. TRANSPORT INFO	ORM	ATION	
Intern	ational Regulations			
UNRT UN nι Prope		:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID,
Labels	ng group	:	(Ivermectin) 9 III 9 yes	
IATA- UN/ID Prope		:	UN 3077 Environmentall (Ivermectin)	y hazardous substance, solid, n.o.s.
Labels Packir aircrat	ng group s ng instruction (cargo ft)	:	9 III Miscellaneous 956	
ger ai	ng instruction (passen- rcraft) onmentally hazardous	:	956 yes	
UN nu	-Code umber r shipping name	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID,
Labels EmS (ng group s	:	(Ivermectin) 9 III 9 F-A, S-F yes	
	port in bulk according	-		RPOL 73/78 and the IBC Code
Natio	nal Regulations			
ADG UN nu Prope	umber r shipping name	:	UN 3077 ENVIRONMEN N.O.S. (Ivermectin)	TALLY HAZARDOUS SUBSTANCE, SOLID,
Class Packir	ng group	:	9 III	



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
9.2	06.04.2024	412850-00028	Date of first issue: 07.01.2016

Labels	:	9
Hazchem Code	:	2Z
Environmentally hazardous	:	yes

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

Safety, health and environme ture	ental regulations/legisla	tion specific for the substance or mix-		
Therapeutic Goods (Poisons Standard) Instrument		use the original publication to check for c conditions or threshold limits that might al)		
Prohibition/Licensing Requirements		: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
The components of this product are reported in the following inventories:				
AICS	: not determined			
DSL	: not determined			

IECSC : not determined

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information	
Revision Date Sources of key data used to compile the Safety Data Sheet	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	dd.mm.yyyy
Full text of other abbreviation	S
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
AU OEL	Australia. Workplace Exposure Standards for Airborne Con- taminants.
ACGIH / TWA AU OEL / TWA	8-hour, time-weighted average Exposure standard - time weighted average

SAFETY DATA SHEET



Ivermectin Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
9.2	06.04.2024	412850-00028	Date of first issue: 07.01.2016

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.

AU / EN