



VersionRevision Date:SDS Number:Date of last issue: 2024/06/1712.12024/09/28412862-00030Date of first issue: 2016/01/07	
---	--

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Ivermectin Solid Formulation
Supplier's company name, a	ddr	ess and phone number
Company name of supplier	:	MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical productAcute toxicity (Oral): Category 4					
Specific target organ toxicity - single exposure (Oral)	:	Category 2 (Central nervous system)			
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system)			
Short-term (acute) aquatic hazard	:	Category 1			
Long-term (chronic) aquatic hazard	:	Category 1			
GHS label elements					
Hazard pictograms	:				
Signal word	:	Warning			
Hazard statements	:	H302 Harmful if swallowed.			





ersion 2.1	Revision Date: 2024/09/28	SDS Number: 412862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
		swallowed. H373 May cau through prolor	use damage to organs (Central nervous system) use damage to organs (Central nervous system) nged or repeated exposure if swallowed. kic to aquatic life with long lasting effects.
Preca	utionary statements	P270 Do not e	preathe dust. kin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment.
		CENTER/ doc	
		Storage: P405 Store lo	cked up.
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste
Other	· hazards which do not	result in classifica	ation
	tant symptoms and out- of the emergency as- d	Contact with c the skin.	with the eyes can lead to mechanical irritation. Just can cause mechanical irritation or drying of

May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

```
: Mixture
```

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Cellulose	9004-34-6	>= 70 - < 80	
Starch	9005-25-8	>= 10 - < 20	8-98
Ivermectin	70288-86-7	>= 2.5 - < 10	-

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



Version 12.1	Revision Date: 2024/09/28		OS Number: 2862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
In cas If swa Most i	e of skin contact e of eye contact llowed mportant symptoms ffects, both acute and	: : : :	Wash with water Get medical atter If in eyes, rinse of Get medical atter If swallowed, DC so by medical per Get medical atter Rinse mouth the Never give anyth Harmful if swallo May cause dam exposure if swall	ention if symptoms occur. r and soap. ention if symptoms occur. well with water. ention if irritation develops and persists. D NOT induce vomiting unless directed to do ersonnel. ention. proughly with water. hing by mouth to an unconscious person. owed. age to organs if swallowed. age to organs through prolonged or repeated lowed.
	ction of first-aiders to physician	:	Contact with dust can cause mechanical irritation or drying 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). Treat symptomatically and supportively.	
5. FIREFIG	HTING MEASURES			
Suitab	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical	
Unsuit media	table extinguishing	:	None known.	
Specil fightin	fic hazards during fire- g	:	concentrations, potential dust ex	g dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a plosion hazard. nbustion products may be a hazard to health.
Hazar ucts	dous combustion prod-	:	Carbon oxides	
Specil ods	fic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to do
	al protective equipment fighters	:		re, wear self-contained breathing apparatus. otective equipment.



Version	Revision Date:	SDS Number:	Date of last issue: 2024/06/17
12.1	2024/09/28	412862-00030	Date of first issue: 2016/01/07

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 pro- tective 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 certain local or national requirements.

7. HANDLING AND STORAGE

Handling	
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 Advice on safe handling	 Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment 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. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.



Version Revision Date: 12.1 2024/09/28	SDS Number: 412862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07	
Avoidance of contact Hygiene measures	flushing systems a place. When using do no Wash contaminat The effective oper engineering contra appropriate degov	emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls	
Storage			
Conditions for safe storage	Store locked up. Store in accordan	abelled containers. Ice with the particular national regulations. the following product types:	
Packaging material	Strong oxidizing a	agents	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH
Starch	9005-25-8	TWA	10 mg/m3	ACGIH
Ivermectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal
	Further informa	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	:	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



Versio 12.1	n Revision Date: 2024/09/28	-	S Number: 2862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
	Material	:	Chemical-resistar	nt gloves
E	Remarks ye protection	:	If the work enviror mists or aerosols, Wear a faceshield	gloving. ses with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. If or other full face protection if there is a t contact to the face with dusts, mists, or
S	kin and body protection	:	Work uniform or la Additional body ga task being perform posable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially
9. PH\	SICAL AND CHEMICAL PR	ROF	ERTIES	
P	hysical state	:	powder	
С	olour	:	No data available	9
0	dour	:	No data available	9
0	dour Threshold	:	No data available	9
М	elting point/freezing point	:	No data available	9
	oiling point, initial boiling pint and boiling range	:	No data available)
FI	ammability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- ans.
FI	ammability (liquids)	:	Not applicable	
Lo	ower explosion limit and uppe Upper explosion limit / Up- per flammability limit			
	Lower explosion limit / Lower flammability limit	:	No data available	9
FI	lash point	:	Not applicable	
D	ecomposition temperature	:	No data available	2
pl	Н	:	No data available	2
E,	vaporation rate	:	Not applicable	
A	uto-ignition temperature	:	No data available	9





Vers 12.1		Revision Date: 2024/09/28		5 Number: 862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
	Viscosit Visc	ty osity, kinematic	:	Not applicable	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	Not applicable	
		and / or relative densit ative density	у :	No data available	
	Den	sity	:	No data available	
	Relative	e vapour density	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
		characteristics icle size	:	No data available	

10. STABILITY AND REACTIVITY

Chemical stability:Stable under normal conditions.Possibility of hazardous reac- tions:May form explosive dust-air mixture during processing 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 : No hazardous decomposition products are known. products	

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation Skin contact
exposure		Ingestion
		Eye contact



ersion 2.1	Revision Date: 2024/09/28		S Number: 2862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
	e toxicity ful if swallowed.			
Produ	<u>uct:</u>			
Acute	oral toxicity	:	Acute toxicity e Method: Calcu	estimate: 666.67 mg/kg lation method
Acute	dermal toxicity	:	Acute toxicity e Method: Calcu	estimate: > 2,000 mg/kg lation method
<u>Comp</u>	oonents:			
Cellul	lose:			
Acute	oral toxicity	:	LD50 (Rat): > \$	5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 9 Exposure time Test atmosphe	:4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Starc	h:			
	oral toxicity	:	LD50 (Rat): > \$	5,000 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
lverm	ectin:			
Acute	oral toxicity	:	LD50 (Rat): 50	mg/kg
			LD50 (Mouse):	: 25 mg/kg
			Symptoms: Vo): > 24 mg/kg : Central nervous system miting, Dilatation of the pupil nortality observed at this dose.
Acute	inhalation toxicity	:	LC50 (Rat): 5. Exposure time Test atmosphe	:1h
Acute	dermal toxicity	:	LD50 (Rabbit):	406 mg/kg

Not classified based on available information.

Components:

Ivermectin:





ersion 1	Revision Date: 2024/09/28	SDS Number: 412862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
Specie Resul		: Rabbit : No skin irrit	ation
	us eye damage/eye assified based on av		
	oonents:		
Starc			
Specie Resul		: Rabbit : No eye irrita	ation
lverm	ectin:		
Specie Resul		: Rabbit : Mild eye irri	itation
Respi	ratory or skin sens	itisation	
Not cl Respi	sensitisation assified based on av iratory sensitisatior	ı	
	assified based on av	ailable information.	
	oonents:		
Starc Test T Expos Specie Resul	ype sure routes es	: Maximisatio : Skin contac : Guinea pig : negative	
lverm	ectin:		
Expos Specie Resul		: Dermal : Humans : Does not ca	ause skin sensitisation.
	cell mutagenicity assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Cellul	ose:		
Genot	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative





1	2024/09/28	SDS Number: 412862-00030	Date of first issue: 2016/01/07
		cytogenetic as Species: Mou Application Ro Result: negati	se Dute: Ingestion
Starc			
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
lverm	ectin:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		thesis in mam	IA damage and repair, unscheduled DNA sy malian cells (in vitro) numan diploid fibroblasts ve
		Test Type: Mo Result: negati	ouse Lymphoma ve
Not cl	nogenicity lassified based on av conents:	vailable information.	
Not cl	lassified based on av	vailable information.	
Not cl <u>Comp</u>	lassified based on av ponents: lose:	vailable information.	
Not cl Comp Cellu Speci Applic	lassified based on av <u>ponents:</u> lose: es cation Route	: Rat : Ingestion	
Not cl Comp Cellu Speci Applic	lassified based on av <u>conents:</u> lose: es cation Route sure time	: Rat	
Not cl Comp Cellu Speci Applic Expos Resul	lassified based on av <u>conents:</u> lose: es cation Route sure time	: Rat : Ingestion : 72 weeks	
Not cl <u>Comp</u> <u>Cellu</u> Speci Applic Expos Resul <u>Iverm</u> Speci	assified based on av <u>conents:</u> lose: es cation Route sure time t hectin: es	: Rat : Ingestion : 72 weeks : negative : Rat	
Not cl Comp Cellu Speci Applic Expos Resul Iverm Speci Applic	lassified based on av <u>conents:</u> lose: es cation Route sure time it hectin: es cation Route	: Rat : Ingestion : 72 weeks : negative : Rat : Oral	
Not cl Comp Cellu Speci Applic Expos Resul Iverm Speci Applic NOAE	lassified based on av <u>conents:</u> lose: es cation Route sure time t nectin: es cation Route EL	: Rat : Ingestion : 72 weeks : negative : Rat : Oral : 1.5 mg/kg boo	ły weight
Not cl Comp Cellu Speci Applic Expos Resul Iverm Speci Applic	lassified based on av <u>conents:</u> lose: es cation Route sure time lt nectin: es cation Route EL t	: Rat : Ingestion : 72 weeks : negative : Rat : Oral : 1.5 mg/kg boo : negative	ly weight a from similar materials
Not cl Comp Cellu Speci Applic Expos Resul NOAE Resul Rema Speci	assified based on av <u>conents:</u> lose: es cation Route sure time t nectin: es cation Route EL t arks es	: Rat : Ingestion : 72 weeks : negative : Rat : Oral : 1.5 mg/kg boo : negative : Based on data : Mouse	
Not cl Comp Cellu Speci Applic Expos Resul NOAE Resul Rema Speci Applic Speci	assified based on av <u>conents:</u> lose: es cation Route sure time t nectin: es cation Route EL t arks es cation Route	 Rat Ingestion 72 weeks negative Rat Oral 1.5 mg/kg bod negative Based on data Mouse Oral 	a from similar materials
Not cl Comp Cellu Speci Applic Expos Resul NOAE Resul Rema Speci Applic NOAE Resul Rema	assified based on av <u>conents:</u> lose: es cation Route sure time t nectin: es cation Route EL t arks es cation Route EL	 Rat Ingestion 72 weeks negative Rat Oral 1.5 mg/kg boo negative Based on data Mouse Oral 2.0 mg/kg boo 	a from similar materials
Not cl Comp Cellu Speci Applic Expos Resul NOAE Resul Rema Speci Applic Speci	assified based on av <u>conents:</u> lose: es cation Route sure time t nectin: es cation Route EL t arks es cation Route EL t t	 Rat Ingestion 72 weeks negative Rat Oral 1.5 mg/kg boo negative Based on data Mouse Oral 2.0 mg/kg boo negative 	a from similar materials



sion 1	Revision Date: 2024/09/28	SDS Number: 412862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
<u>Comp</u>	oonents:		
Cellul	lose:		
Effect	s on fertility	: Test Type: One Species: Rat Application Rou Result: negative	
Effect: ment	s on foetal develop-	: Test Type: Fert Species: Rat Application Rou Result: negative	
lverm	ectin:		
Effect	s on fertility		
Effects ment	s on foetal develop-	Result: Teratog	9
		Result: Embryo spring were det	ute: Oral Toxicity: LOAEL: 0.4 mg/kg body weight toxic effects and adverse effects on the off- tected. mechanism or mode of action may not be re
			t

Components:

Ivermectin:

Target Organs

: Central nervous system



ersion 2.1	Revision Date: 2024/09/28	SDS Number: 412862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
Asses	ssment	: Causes damag	ge to organs.
May c	- repeated exposure ause damage to orga llowed.		ystem) through prolonged or repeated exposu
<u>Comp</u>	oonents:		
lverm	ectin:		
•	et Organs ssment	 Central nervou Causes damager exposure. 	is system ge to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Cellu	lose:		
		: Rat : >= 9,000 mg/k : Ingestion : 90 Days	g
Starc	h:		
	EL cation Route sure time	: Rat : >= 2,000 mg/k : Skin contact : 28 Days : OECD Test Gu	
lverm	ectin:		
Expos	EL EL cation Route sure time ot Organs	: Dog : 0.5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervou : Dilatation of th	is system e pupil, Tremors, Lack of coordination, anore:
	EL cation Route sure time	: Monkey : 1.2 mg/kg : Oral : 2 Weeks : No significant :	adverse effects were reported
	EL	: Rat : 0.4 mg/kg : 0.8 mg/kg : Oral : 3 Months	





ersion 2.1	Revision Date: 2024/09/28		0S Number: 2862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
Targe	et Organs	:	spleen, Bone ma	rrow, Kidney
_	ation toxicity	-		
	lassified based on availa	able	information.	
Expe	rience with human exp	osi	ıre	
Com	oonents:			
	nectin: contact	:	Remarks: Can be	absorbed through skin.
Eve o	contact	:	Remarks: May irr	-
Inges		:	Symptoms: Drow	siness, Dilatation of the pupil, Tremors, Von ack of coordination
Ecoto	oxicity			
Ecoto	oxicity			
Com	oonents:			
Cellu	lose:			
Toxic	ity to fish	:	LC50 (Oryzias lat Exposure time: 4	ipes (Japanese medaka)): > 100 mg/l
				3 h on data from similar materials
lverm	nectin:			
	nectin: ity to fish	:	Remarks: Based	on data from similar materials hus mykiss (rainbow trout)): 0.003 mg/l
		:	Remarks: Based LC50 (Oncorhyno Exposure time: 90	on data from similar materials chus mykiss (rainbow trout)): 0.003 mg/l 5 h nacrochirus (Bluegill sunfish)): 0.0048 mg/l
Toxic Toxic			Remarks: Based LC50 (Oncorhyno Exposure time: 90 LC50 (Lepomis m Exposure time: 90	on data from similar materials chus mykiss (rainbow trout)): 0.003 mg/l 6 h nacrochirus (Bluegill sunfish)): 0.0048 mg/l 6 h nagna (Water flea)): 0.000025 mg/l
Toxic Toxic aquat	ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic		Remarks: Based LC50 (Oncorhyno Exposure time: 90 LC50 (Lepomis m Exposure time: 90 EC50 (Daphnia m Exposure time: 40	on data from similar materials chus mykiss (rainbow trout)): 0.003 mg/l 5 h nacrochirus (Bluegill sunfish)): 0.0048 mg/l 5 h nagna (Water flea)): 0.000025 mg/l 3 h chneriella subcapitata (green algae)): > 9.1 2 h
Toxic Toxic aquat Toxic	ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic		Remarks: Based LC50 (Oncorhynd Exposure time: 90 LC50 (Lepomis m Exposure time: 90 EC50 (Daphnia m Exposure time: 44 EC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	on data from similar materials chus mykiss (rainbow trout)): 0.003 mg/l 5 h nacrochirus (Bluegill sunfish)): 0.0048 mg/l 5 h nagna (Water flea)): 0.000025 mg/l 3 h chneriella subcapitata (green algae)): > 9.1 2 h est Guideline 201 rchneriella subcapitata (green algae)): 9.1 2 h





/ersion I2.1	Revision Date: 2024/09/28	-	DS Number: 2862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07	
M-Fa toxici	ctor (Chronic aquatic ty)	:	10,000		
Persi	istence and degradabi	ility			
Com	ponents:				
	llose:				
	egradability	:	Result: Readil	y biodegradable.	
lvern	nectin:				
Biode	Biodegradability :		Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 240 d		
Bioa	ccumulative potential				
Com	ponents:				
lvern	nectin:				
Bioad	ccumulation	:	Bioconcentrati	on factor (BCF): 74	
	ion coefficient: n- nol/water	:	log Pow: 3.22		
Mobi	lity in soil				
No da	ata available				
	rdous to the ozone lay	yer			
Othe	r adverse effects				
No da	ata available				
3. DISPO	DSAL CONSIDERATIO	NS			
Disp	osal methods				
-	e from residues	:		accordance with local regulations.	
Conta	aminated packaging	:	Empty contain dling site for re	e of waste into sewer. ers should be taken to an approved waste ha ecycling or disposal. e specified: Dispose of as unused product.	
4. TRAN	SPORT INFORMATIO	N			
Inter	national Regulations				
UNR	TDG				
UN n	umber er shipping name	:	UN 3077 ENVIRONMEI N.O.S. (Ivermectin)	NTALLY HAZARDOUS SUBSTANCE, SOLID	





Version 12.1	Revision Date: 2024/09/28		98 Number: 2862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
Labels	ng group	:	9 III 9 yes	
IATA- UN/ID Prope	-	:	UN 3077 Environmentally h (Ivermectin)	azardous substance, solid, n.o.s.
Class Packing group Labels Packing instruction (cargo		:	9 III Miscellaneous 956	
aircra Packii ger ai	ft) ng instruction (passen-	:	956 yes	
IMDG UN ու	-Code	:	UN 3077	ALLY HAZARDOUS SUBSTANCE, SOLID,
Labels EmS (ng group s		(Ivermectin) 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.

National Regulations

Refer to section 15 for specific national regulation.

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.

ERG Code

: 171

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.





/ersion 2.1	Revision Date: 2024/09/28	SDS Number: 412862-00030	Date of last issue: 2024/06/17 Date of first issue: 2016/01/07
	trial Safety and Hea		
Not ap Harm	oplicable ful Substances Req	hibited from Manufac Juired Permission for	
Subst	oplicable t ances Prevented F oplicable	rom Impairment of He	ealth
on Ex	lar concerning Infor isting Chemicals ha		s having Mutagenicity - Annex 2: Information
on No		rmation on Chemicals naving Mutagenicity	s having Mutagenicity - Annex 1: Informati
	ances Subject to be	e Notified Names	
	tances Subject to be	e Indicated Names	
	and Eye Damage Su oplicable	Ibstances for PPE Re	equirements (ISHL MO Art. 594-2)
tions)		s (Article 577-2 of the	e Occupational Health and Safety Regula-
	ance on Prevention	of Hazards Due to S	pecified Chemical Substances
	ance on Prevention	of Lead Poisoning	
	ance on Prevention	of Tetraalkyl Lead P	oisoning
	ance on Prevention	of Organic Solvent F	Poisoning
Subst	cement Order of the tances) oplicable	e Industrial Safety an	d Health Law - Attached table 1 (Dangerou
Poiso		us Substances Contr	ol Law
vironı			of Specific Chemical Substances in the En the Management Thereof



Version	Revision Date:	SDS Number:	Date of last issue: 2024/06/17
12.1	2024/09/28	412862-00030	Date of first issue: 2016/01/07

High Pressure Gas Safety Act

Not applicable

Explosive Control Law

Not applicable

Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation :		Not classified as noxious liquid substance
-----------------------	--	--

Pack transportation : Classified as marine pollutant

Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

Waste Disposal and Public Cleansing Law

Industrial waste

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

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

16. OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Date format	:	yyyy/mm/dd	
Full text of other abbreviation	ons		
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)	
ACGIH / TWA	:	8-hour, time-weighted average	

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

SAFETY DATA SHEET



Ivermectin Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/06/17
12.1	2024/09/28	412862-00030	Date of first issue: 2016/01/07

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.

JP / EN