



Abamectin Liquid Formulation

Version 5.0	Revision Date: 28.09.2024		S Number: 28551-00020	Date of last issue: 30.09.2023 Date of first issue: 18.01.2017
1. PRODU	JCT AND COMPANY	IDENT	FIFICATION	
Product name		:	Abamectin Liq	uid Formulation
Manu	ufacturer or supplier	r's deta	ils	
Company		:	MSD	
Address		:)ff Pune Nagar Road e - India 412 207

		Wagholi - Fulle - India 412 207
Telephone	:	+1-908-740-4000
Emergency telephone number	:	+1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the che	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification Acute toxicity (Oral)	:	Category 5
Acute toxicity (Inhalation)	:	Category 4
Specific target organ toxicity - repeated exposure	:	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

according to the Globally Harmonized System



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Hazar	d statements	H332 Harmful if H373 May caus through prolong	armful if swallowed. inhaled. e damage to organs (Central nervous system) ed or repeated exposure. e to aquatic life with long lasting effects.		
Preca	utionary statements	 Prevention: P260 Do not breathe mist or vapours. P271 Use only outdoors or with adequate ventilation. P273 Avoid release to the environment. 			
		P304 + P340 + and keep comfo	SWALLOWED: Get medical help. P317 IF INHALED: Remove person to fresh air ortable for breathing. Get medical help. cal help if you feel unwell. illage.		
		Disposal: P501 Dispose o disposal plant.	f contents/ container to an approved waste		

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Glycerides, mixed decanoyl and octanoyl	73398-61-5	>= 30 - < 50
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 1 - < 2.5

Alternative CAS Numbers for some regions

Chemical name	Alternative CAS Number(s)
Glycerides, mixed decanoyl and octanoyl	52622-27-2

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes.

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In case of eye contact If swallowed Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		: : :	Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. May be harmful if swallowed. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure. 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. FIREF	IGHTING MEASURES				
Suit	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
Uns med	uitable extinguishing lia	:	None known.		
Spe figh	cific hazards during fire- ting	:	Exposure to comb	pustion products may be a hazard to health.	
Haz ucts	ardous combustion prod-	:	Carbon oxides		
Spe ods	cific extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	cial protective equipment irefighters	:		e, wear self-contained breathing apparatus. tective equipment.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water.





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			Local authorities s cannot be contain	should be advised if significant spillages ed.
	hods and materials for tainment and cleaning up	:	For large spills, pr ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.
7. HAND	LING AND STORAGE			
Tec	hnical measures	:		measures under EXPOSURE SONAL PROTECTION section.
Loc	al/Total ventilation	:		tion is unavailable, use with local exhaust
Adv	ice on safe handling	:	Do not breathe m Do not swallow. Avoid contact with Avoid prolonged of Wash skin thorou Handle in accorda practice, based of sessment Keep container tig Do not eat, drink	n eyes. or repeated contact with skin. ghly after handling. ance with good industrial hygiene and safety n the results of the workplace exposure as-
Con	ditions for safe storage	:	Keep in properly I Keep tightly close	

Materials to avoid

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

:

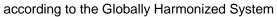
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
abamectin (combination of avermectin B1a and avermec- tin B1b) (ISO)	71751-41-2	TWA	15 μg/m3 (OEB 3)	Internal
		Wipe limit	150 µg/100 cm ²	Internal

Keep in a cool, well-ventilated place.

Do not store with the following product types:

Store in accordance with the particular national regulations.

Strong oxidizing agents





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Eng	Engineering measures		technologies to quick connection All engineering design and oper protect product Containment te are required to	controls should be implemented by facility erated in accordance with GMP principles to s, workers, and the environment. chnologies suitable for controlling compounds control at source and to prevent migration of to uncontrolled areas (e.g., open-face contain-
Per	sonal protective equip	nent		
	piratory protection	:	sure assessme	al exhaust ventilation is not available or expo- nt demonstrates exposures outside the rec- delines, use respiratory protection.
	Filter type ad protection	:		culates and organic vapour type
١	Material	:	Chemical-resis	tant gloves
	Remarks protection	:	If the work envi mists or aeroso Wear a faceshi	e gloving. asses with side shields or goggles. ronment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
Skir	n and body protection	:	Work uniform of Additional body being performe suits) to avoid of	r laboratory coat. garments should be used based upon the task d (e.g., sleevelets, apron, gauntlets, disposable exposed skin surfaces. e degowning techniques to remove potentially lothing.
Hyg	iene measures	:	If exposure to of flushing system place. When using do Wash contamin The effective of engineering co appropriate des	chemical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. hated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light yellow
Odour	:	characteristic

according to the Globally Harmonized System



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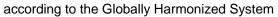
Vers 5.0	sion	Revision Date: 28.09.2024		S Number: 28551-00020	Date of last issue: 30.09.2023 Date of first issue: 18.01.2017
	Odour	Threshold	:	No data available	9
	рН		:	No data available	9
	Melting	g point/freezing point	:	No data available	9
	Initial b range	poiling point and boiling	:	No data available	9
	Flash p	point	:	No data available	9
	Evapo	ration rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	9
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	No data available	9
	Relativ	ve vapour density	:	No data available	9
	Relativ	ve density	:	No data available	9
	Densit	у	:	0.90 - 0.94 g/cm ³	3
		lity(ies) ter solubility	:	insoluble	
		on coefficient: n-	:	Not applicable	
		I/water gnition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscos Visc	ity cosity, kinematic	:	No data available	9
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ular weight	:	No data available	9
	Particle Particle	e characteristics e size	:	Not applicable	

10. STABILITY AND REACTIVITY

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	Possibil tions Conditic Incompa	al stability lity of hazardous reac- ons to avoid atible materials ous decomposition	: : : : : : : : : : : : : : : : : : : :	Stable under norn Can react with sta None known. Oxidizing agents	a reactivity hazard. mal conditions. rong oxidizing agents. composition products are known.
11. T	OXICO	LOGICAL INFORMAT	101	1	
	Informa exposui	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
		oxicity harmful if swallowed. I if inhaled.			
	Produc			• • • • • •	
	Acute o	ral toxicity	:	Acute toxicity estin Method: Calculation	
	Acute ir	nhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	n dust/mist
11	Acute d	ermal toxicity	:	Acute toxicity estine Method: Calculation	mate: > 5,000 mg/kg on method
	<u>Compo</u>	nents:			
	Glyceri	des, mixed decanoyl	and	d octanoyl:	
	-	ral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg on data from similar materials
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 1.86 Exposure time: 6 Test atmosphere:	n -
	Acute d	ermal toxicity	:	Method: OECD Te Assessment: The toxicity	
	abameo	ctin (combination of a	avei	mectin B1a and a	vermectin B1b) (ISO):
	Acute o	ral toxicity	:	LD50 (Rat): 24 mg	g/kg
				LD50 (Mouse): 10	mg/kg
				LDLo (Monkey): 2	4 mg/kg





ersion 0	Revision Date: 28.09.2024	SDS Number: 1228551-00020	Date of last issue: 30.09.2023 Date of first issue: 18.01.2017
		Symptoms: Dilat	ation of the pupil
Acute	e inhalation toxicity	: LC50 (Rat): 0.02 Exposure time: 4 Test atmosphere	4 h
Acute	e dermal toxicity	: LD50 (Rat): 330	mg/kg
		LD50 (Rabbit): 2	2,000 mg/kg
-	corrosion/irritation		
	lassified based on ava	ailable information.	
	ponents:		
	erides, mixed decan	•	
Spec Resu		: Rabbit : No skin irritation	
Resu	п	. NO SKIT ITTALIOT	
aban	nectin (combination	of avermectin B1a and	avermectin B1b) (ISO):
Spec		: Rabbit	
Resu		: No skin irritation	
	<u>ponents:</u> erides, mixed decan	oyl and octanoyl:	
Spec		: Rabbit	
Resu	lt	: No eye irritation	
aham	pectin (combination	of avermectin B1a and	avermectin B1b) (ISO):
Spec	•	: Rabbit	
Resu		: Mild eye irritation	n
Resp	iratory or skin sensi	tisation	
•	sensitisation		
-	lassified based on ava	ailable information.	
	iratory sensitisation		
-	lassified based on ava		
<u>Com</u>	ponents:		
Glyce	erides, mixed decan	oyl and octanoyl:	
Test		: Buehler Test	
	sure routes	: Skin contact	
Spec		: Guinea pig	deline 100
Meth Resu		: OECD Test Guid : negative	Jeiine 406
Resu	п	. negative	
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Rema	ırks	:	Based on data	from similar materials
Test 7	•	of ave	Maximisation T	d avermectin B1b) (ISO): est
	sure routes	:	Skin contact	
Resul		:	Not a skin sens	itizer.
Germ	cell mutagenicity			
Not cl	assified based on av	ailable	information.	
<u>Com</u> p	oonents:			
	erides, mixed decan	oyl and	-	
Geno	toxicity in vitro	:	Method: Directi Result: negative	terial reverse mutation assay (AMES) ve 67/548/EEC, Annex, B.13/14 e d on data from similar materials
				omosome aberration test in vitro
			Result: negative Remarks: Base	e d on data from similar materials
				tro mammalian cell gene mutation test
			Result: negative Remarks: Base	e d on data from similar materials
			Test Type: In vi malian cells Result: negative	tro sister chromatid exchange assay in man
				d on data from similar materials
Geno	toxicity in vivo	:	Test Type: Mar cytogenetic ass Species: Mouse	
			Application Rou	
			Result: negative Remarks: Base	e d on data from similar materials
II				
	•	of ave		d avermectin B1b) (ISO):
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
				tro mammalian cell gene mutation test hinese hamster lung cells e
			Test Type: Alka Result: negative	aline elution assay e
Geno	toxicity in vivo	:		agenicity (in vivo mammalian bone-marrow t, chromosomal analysis) e

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Application Route: Intraperitoneal injection Result: negative

Carcinogenicity

Not classified based on available information.

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species	: Rat
Species Application Route	: Oral
Exposure time	: 105 weeks
Exposure time Result	: negative
Species	: Mouse
Species Application Route	: Oral
Exposure time Result	: 93 weeks

Reproductive toxicity

Not classified based on available information.

Components:

Glycerides, mixed decanoyl and octanoyl:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Intravenous injection Result: negative Remarks: Based on data from similar materials

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Effects on fertility	:	Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility
		Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Mouse

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		Developmental Result: Cleft pals Remarks: Adver Test Type: Emb Species: Rabbit Application Rout Developmental Result: Cleft pals survival Remarks: Adver Test Type: Deve Species: Rat Application Rout	Maternal: NOAEL: 0.05 mg/kg body weight Toxicity: NOAEL: 0.2 mg/kg body weight ate se developmental effects were observed ryo-foetal development te: Oral Toxicity: LOAEL: 2 mg/kg body weight ate, Teratogenic effects, Reduced embryonic se developmental effects were observed elopment te: Oral Toxicity: LOAEL: 1.6 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	fertility, based or	of adverse effects on sexual function and n animal experiments., Some evidence of on development, based on animal experi-

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

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

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

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

Repeated dose toxicity

Components:

Glycerides, mixed decanoyl and octanoyl:

Species	:	Rat
NOAEL	:	5,000 mg/kg
Species NOAEL Application Route	:	Ingestion
Exposure time	:	13 Weeks
Exposure time Remarks	:	Based on data from similar materials

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species NOAEL	:	Rat
NOAEL	:	1.5 mg/kg

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Expo	cation Route sure time et Organs otoms	: Oral : 24 Months : Central nervo : Tremors, atax	
Expo	EL cation Route sure time et Organs	: Mouse : 4.0 mg/kg : Oral : 24 Months : Central nervo : Tremors, atax	
Expo Targe	EL EL cation Route sure time et Organs otoms	: Dog : 0.25 mg/kg : 0.5 mg/kg : Oral : 53 Weeks : Central nervo : Tremors, weig : mortality obse	ght loss
Expo		: Monkey : 1.0 mg/kg : Oral : 14 Weeks : Central nervo	us system
•	ration toxicity lassified based on ava	ilable information.	

Experience with human exposure

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Ingestion	:	Symptoms: May cause, Tremors, Diarrhoea, central nervous
Ingestion		system effects, Salivation, tearing

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Glycerides, mixed decanoyl and octanoyl:

Toxicity to fish	:	LL50 (Danio rerio (zebra fish)): > 1,000 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.2.

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	•			
rsion	Revision Date: 28.09.2024	-	S Number: 28551-00020	Date of last issue: 30.09.2023 Date of first issue: 18.01.2017
			Remarks: Based of	on data from similar materials
Toxicit <u>;</u> plants	y to algae/aquatic	:	mg/l Exposure time: 72 Test substance: W	mus subspicatus (green algae)): > 1,000 h /ater Accommodated Fraction 67/548/EEC, Annex V, C.3.
			mg/l Exposure time: 72 Test substance: W	mus subspicatus (green algae)): > 1,000 h /ater Accommodated Fraction 67/548/EEC, Annex V, C.3.
	y to daphnia and other c invertebrates (Chron- ity)	:	Test substance: W Method: OECD Te	d magna (Water flea) /ater Accommodated Fraction est Guideline 211 on data from similar materials
abame	ectin (combination of a	ave	rmectin B1a and a	vermectin B1b) (ISO):
	y to fish	:		hus mykiss (rainbow trout)): 3.2 µg/l
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 9.6 μg/l [:] h
			LC50 (Ictalurus pu Exposure time: 96	inctatus (channel catfish)): 24 μg/l h
			LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 42 μg/l i h
			LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 μg/l h
	y to daphnia and other invertebrates	:	EC50 (Americamy Exposure time: 96	
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.34 μg/l h
Toxicit <u>;</u> plants	y to algae/aquatic	:	EC50 (Pseudokin mg/l Exposure time: 72	chneriella subcapitata (green algae)): 100 h
M-Fact icity)	or (Acute aquatic tox-	:	10,000	
Toxicit	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 l Test Type: Respir	1





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Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 32	2 d ales promelas (fathead minnow)
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 21	d magna (Water flea)
			NOEC: 0.0035 µg Exposure time: 28 Species: Mysidop	
M-Fac toxicit	ctor (Chronic aquatic y)	:	10,000	
Persis	stence and degradabili	ty		
Comp	oonents:			
Glyce	rides, mixed decanoyl	and	d octanoyl:	
Biode	gradability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: OECD Te	95.4 %
abam	ectin (combination of a	ave	rmectin B1a and a	vermectin B1b) (ISO):
Stabili	ity in water	:	Hydrolysis: 50 %(< 12 h)
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Glyce	rides, mixed decanoyl	and	d octanoyl:	
	on coefficient: n- ol/water	:	log Pow: > 8	
abam	ectin (combination of a	ave	rmectin B1a and a	vermectin B1b) (ISO):
Bioaco	cumulation	:	Bioconcentration f	factor (BCF): 52
	on coefficient: n- ol/water	:	log Pow: 4	
Mobil	ity in soil			
Comp	oonents:			
abam	ectin (combination of a	ave	rmectin B1a and a	vermectin B1b) (ISO):
	oution among environ- Il compartments	:	log Koc: > 3.6	

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••	r adverse effects ata available			
13. DISPC	SAL CONSIDERATIO	NS		
Dispo	osal methods			
Waste	e from residues		of waste into sewer.	
Conta	aminated packaging	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste had dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 		
14. TRAN	SPORT INFORMATION	N		
Interr	national Regulations	•		
UNR	ГDG	-		
UNR UN ni	-	: UN 3082 : ENVIRONMEN N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID,	
UNR UN ni	FDG umber	: UN 3082 : ENVIRONMEN N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID,	
UNR UN ni Prope Class	FDG umber er shipping name	: UN 3082 : ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) : 9		
UNR UN ni Prope Class Packi	TDG umber er shipping name ng group	: UN 3082 : ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) : 9 : III		
UNR UN ni Prope Class Packi Label	TDG umber er shipping name ng group	: UN 3082 : ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) : 9		
UNR UN nu Prope Class Packi Label Enviro IATA	TDG umber er shipping name ng group s onmentally hazardous -DGR	: UN 3082 : ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) : 9 : III : 9 : yes		
UNR UN nu Prope Class Packi Label Enviro IATA UN/IE	TDG umber er shipping name ng group s onmentally hazardous -DGR O No.	 : UN 3082 : ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) : 9 : III : 9 : yes : UN 3082 	ombination of avermectin B1a and avermectin	
UNR UN nu Prope Class Packi Label Enviro IATA UN/IE	TDG umber er shipping name ng group s onmentally hazardous -DGR	 : UN 3082 : ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) : 9 : III : 9 : yes : UN 3082 : Environmentally 		
UNR UN ni Prope Class Packi Label Enviro IATA UN/IE Prope	TDG umber er shipping name ng group s onmentally hazardous -DGR O No. er shipping name	 UN 3082 ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) 9 III 9 yes UN 3082 Environmentally (abamectin (cc B1b) (ISO)) 9 	ombination of avermectin B1a and avermectin y hazardous substance, liquid, n.o.s.	
UNR UN ni Prope Class Packi Label Enviro IATA UN/IE Prope	TDG umber er shipping name ng group s onmentally hazardous -DGR O No. er shipping name	 UN 3082 ENVIRONMEN N.O.S. (abamectin (cc B1b) (ISO)) 9 III 9 yes UN 3082 Environmentally (abamectin (cc B1b) (ISO)) 	ombination of avermectin B1a and avermectin y hazardous substance, liquid, n.o.s.	

Packing group Labels Packing instruction (cargo aircraft)	:	III Miscellaneous 964
,	:	
IMDG-Code UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO))
Class Packing group Labels EmS Code Marine pollutant		9 III 9

according to the Globally Harmonized System



Abamectin Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.0	28.09.2024	1228551-00020	Date of first issue: 18.01.2017

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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

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

16. OTHER INFORMATION

Revision Date	:	28.09.2024
Further information Sources of key data used to compile the Safety Data	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations

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

according to the Globally Harmonized System



Abamectin Liquid Formulation

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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.

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