according to the Hazardous Products Regulations



Abamectin (0.6%) Liquid Formulation

Version 1.3	Revision Date: 11/27/2023		DS Number: 853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022	
SECTION	1. IDENTIFICATION				
	uct name r means of identification		 Abamectin (0.6%) Liquid Formulation COOPERS MAVERICK POUR ON FOR SHEEP (61710) 		
Manu	ufacturer or supplier's	deta	ails		
	Company name of supplier Address		126 E. Lincoln Av	renue rsey U.S.A. 07065	
Emei	Telephone Emergency telephone E-mail address		908-740-4000 1-908-423-6000 EHSDATASTEW		
	Recommended use of the chemical and restrictions on use				

: Veterinary product : Not applicable

SECTION 2. HAZARDS IDENTIFICATION

Recommended use Restrictions on use

GHS classification in accord Acute toxicity (Inhalation)	dan :	ce with the Hazardous Products Regulations Category 4
Eye irritation	:	Category 2A
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system)
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	 H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use.

according to the Hazardous Products Regulations



ersion 3	Revision Date: 11/27/2023	SDS Number: 10853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
		and understood. P260 Do not bre P264 Wash skin P271 Use only c P272 Contamina the workplace.	athe mist or vapors. thoroughly after handling. butdoors or in a well-ventilated area. ated work clothing should not be allowed out of ective gloves, protective clothing, eye protectio
		Response:	
		P302 + P352 IF P304 + P340 + F and keep comfo unwell. P305 + P351 + F for several minu- to do. Continue F P308 + P313 IF P333 + P313 If s tion. P337 + P313 If s	ON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh air rtable for breathing. Call a doctor if you feel P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and eas rinsing. exposed or concerned: Get medical attention. skin irritation or rash occurs: Get medical attent eye irritation persists: Get medical attention. ke off contaminated clothing and wash it befor
		Storage:	
		P405 Store lock	ed up.
		Disposal: P501 Dispose of disposal plant.	f contents and container to an approved waste
Other h			
None kr	iown.		
ECTION 3.	COMPOSITION/INF	ORMATION ON INGE	REDIENTS
Substar	nce / Mixture	: Mixture	
Compo	nents		

Comp	onents

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Polyalkylene oxide derivative of a synthetic alcohol		103818-93-5	37.5
Propylene glycol	1,2-Propanediol	57-55-6	18.75
abamectin (combina- tion of avermectin B1a and avermectin B1b) (ISO)	No data availa- ble	71751-41-2	0.6
1-[1,3- Bis(hydroxymethyl)- 2,5-dioxoimidazolidin- 4-yl]-1,3-	Urea, N-[1,3- bis(hydroxymeth yl)-2,5-dioxo-4- imidazolidinyl]-	78491-02-8	0.2



according to the Hazardous Products Regulations

Abamectin (0.6%) Liquid Formulation

ersion 3	Revision Date: 11/27/2023	SDS Number:Date of last issue: 09/30/202310853001-00004Date of first issue: 09/15/2022		
bis(hydroxymethyl)urea N,N'- bis(hy yl)-		hydroxymeth		
	4. FIRST AID MEAS	JRES		
General advice		 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. 		
If inhaled		 If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. 		
In cas	e of skin contact	 In case of contact, immediately flush skin with soap and plents of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 		
In case of eye contact : In case for at le If easy t		• •		
lf swa	llowed	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. 		
	important symptoms ffects, both acute and ed	May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.		
Prote	ction of first-aiders	 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). 		
Notes	to physician	: Treat symptomatically and supportively.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides



Abamectin (0.6%) Liquid Formulation

Vers 1.3	sion	Revision Date: 11/27/2023		S Number: 853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
	ods Special	c extinguishing meth- l protective equipment fighters	:	cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so. Evacuate area.	
SEC	TION 6	. ACCIDENTAL RELEA	ASE	EMEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. Ing advice (see section 7) and personal ent recommendations (see section 8).
	Enviror	nmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or e of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe mist or vapors.
		Do not swallow.
		Do not get in eyes.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure
		assessment
		Keep container tightly closed.
		Take care to prevent spills, waste and minimize release to the



Abamectin (0.6%) Liquid Formulation

Version 1.3	Revision Date: 11/27/2023	SDS Number: 10853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
Conditions for safe storage		Keep tightly clos	labeled containers. ed. vell-ventilated place.
Materials to avoid		 Store in accordance with the particular national regulati Do not store with the following product types: Strong oxidizing agents Gases 	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m³	CA ON OEL
		TWA (aero- sol)	10 mg/m ³	CA ON OEL
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

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). 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 equipmen	t
Respiratory protection :	exposure assessment demonstrates exposures outside the recommended 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

according to the Hazardous Products Regulations



Abamectin (0.6%) Liquid Formulation

Version 1.3	Revision Date: 11/27/2023	SDS Number: 10853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
Skin a	and body protection	task being perfor disposable suits	garments should be used based upon the med (e.g., sleevelets, apron, gauntlets,) to avoid exposed skin surfaces. degowning techniques to remove potentially
Hygiene measures :		: If exposure to ch eye flushing syst working place. When using do r Contaminated w workplace. Wash contamina The effective ope engineering cont appropriate dego	temical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. ork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear
		dark blue
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available

according to the Hazardous Products Regulations



Abamectin (0.6%) Liquid Formulation

Version 1.3	Revision Date: 11/27/2023		S Number: 353001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
Relati	ve vapor density	:	No data available	2
	Relative density		No data available	
Densi	ty	:	No data available	e
	ility(ies) ater solubility	:	No data available	e
	on coefficient: n- ol/water	:	Not applicable	
	gnition temperature	:	No data available	e
Decor	mposition temperature	:	No data available	e
	Viscosity Viscosity, kinematic		No data available	e
Explo	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.
Molec	Molecular weight		No data available	e
Partic	Particle size		Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

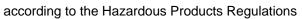
Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2,000 mg/kg





ersion 3	Revision Date: 11/27/2023	SDS Number:Date of last issue: 09/30/202310853001-00004Date of first issue: 09/15/2022
		Method: Calculation method
Acute inhalation toxicity :		: Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity		: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Comp	onents:	
Propy	lene glycol:	
Acute	oral toxicity	: LD50 (Rat): 22,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute	dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
	•	of avermectin B1a and avermectin B1b) (ISO):
Acute	oral toxicity	: LD50 (Rat): 24 mg/kg
		LD50 (Mouse): 10 mg/kg
		LDLo (Monkey): 24 mg/kg Symptoms: Dilatation of the pupil
Acute	inhalation toxicity	: LC50 (Rat): 0.023 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute	dermal toxicity	: LD50 (Rat): 330 mg/kg
		LD50 (Rabbit): 2,000 mg/kg
1-[1,3·	-Bis(hydroxymethyl)-2,5-dioxoimidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea:
Acute	oral toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OPPTS 870.1100
Acute	inhalation toxicity	: LC50 (Rat, male): 490 ppm Exposure time: 4 h Test atmosphere: gas Remarks: Value is for a gas formed in contact with water
Acute	dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Method: OPPTS 870.1200 Assessment: The substance or mixture has no acute dermal toxicity

according to the Hazardous Products Regulations



Abamectin (0.6%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
1.3	11/27/2023	10853001-00004	Date of first issue: 09/15/2022

Skin corrosion/irritation

Not classified based on available information.

Components:

Components:		
Polyalkylene oxide derivative	e o	f a synthetic alcohol:
Species Method	:	reconstructed human epidermis (RhE) OECD Test Guideline 439
Result	:	No skin irritation
Propylene glycol:		
Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
abamectin (combination of a	vei	rmectin B1a and avermectin B1b) (ISO):
Species	:	Rabbit
Result	:	No skin irritation
1-[1,3-Bis(hydroxymethyl)-2,	5-d	lioxoimidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea:
Species	:	Rabbit
Result	:	No skin irritation
Serious eye damage/eye irrita	ati	on
Causes serious eye irritation.		
Components:		
Polyalkylene oxide derivative	e o	f a synthetic alcohol:
Species	:	Bovine cornea
Method	:	OECD Test Guideline 437
Result	:	Irritation to eyes, reversing within 21 days
Propylene glycol:		
Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
abamectin (combination of a	vei	rmectin B1a and avermectin B1b) (ISO):
Species	:	Rabbit
Result	:	Mild eye irritation

1-[1,3-Bis(hydroxymethyl)-2,5-dioxoimidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

according to the Hazardous Products Regulations



/ersion .3	Revision Date: 11/27/2023		0S Number: 853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
Respi	ratory or skin sensit	izatio	n	
	sensitization ause an allergic skin re	eactio	on.	
Respi	ratory sensitization assified based on avai			
Comp	oonents:			
Test T	s of exposure es	:	Maximization Tes Skin contact Guinea pig negative	t
abam	ectin (combination o	f ave	rmectin B1a and a	avermectin B1b) (ISO):
Test T Route Result	s of exposure	:	Maximization Tes Skin contact Not a skin sensiti	
1-[1,3 [.]	-Bis(hydroxymethyl)·	-2,5-0	lioxoimidazolidin	-4-yl]-1,3-bis(hydroxymethyl)urea:
Test T Route Result	s of exposure	:	Human repeat ins Skin contact positive	sult patch test (HRIPT)
Asses	sment	:	Probability or evid	dence of skin sensitization in humans
	cell mutagenicity assified based on avai	ilable	information.	
Comp	oonents:			
	vlene glycol: coxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				nosome aberration test in vitro est Guideline 473
Genot	oxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection
	ectin (combination o coxicity in vitro	f ave :		avermectin B1b) (ISO): rial reverse mutation assay (AMES)
			Test Type: In vitro	o mammalian cell gene mutation test



sion	Revision Date: 11/27/2023	SDS Number:Date of last issue: 09/30/202310853001-00004Date of first issue: 09/15/2022
		Test system: Chinese hamster lung cells Result: negative
		Test Type: Alkaline elution assay Result: negative
Genot	toxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Intraperitoneal injection Result: negative
1-[1.3	-Bis(hvdroxvmethv)-2,5-dioxoimidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea:
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
Genot	toxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse
		Application Route: Ingestion Result: negative
		Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat
		Application Route: Ingestion Method: OECD Test Guideline 486 Result: negative
	nogenicity assified based on av	ailable information.
<u>Comp</u>	oonents:	
	/lene glycol:	
Specie	es cation Route	: Rat : Ingestion
	sure time	: 2 Years : negative
i vesul	L	. negauve

according to the Hazardous Products Regulations



/ersion .3	Revision Date: 11/27/2023		S Number: 353001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
abam	ectin (combination of	aver	mectin B1a and a	avermectin B1b) (ISO):
	cation Route sure time	:	Rat Oral 105 weeks negative	
	cation Route sure time	:	Mouse Oral 93 weeks negative	
Suspe	oductive toxicity ected of damaging fertilit	ty. S	uspected of dama	ging the unborn child.
Comp	<u>oonents:</u>			
	ylene glycol: is on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effect	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	ro-fetal development : Ingestion
abam	ectin (combination of	aver	mectin B1a and a	avermectin B1b) (ISO):
	s on fertility	:	Test Type: Fertilit Species: Rat, mal Application Route Result: Effects on	y le : Oral
			Species: Rat Application Route	Development: NOAEL: 0.12 mg/kg body
Effect	s on fetal development	:	Species: Mouse Application Route General Toxicity I Developmental To Result: Cleft pala	Maternal: NOAEL: 0.05 mg/kg body weight oxicity: NOAEL: 0.2 mg/kg body weight
			Species: Rabbit Application Route Developmental Te	ro-fetal development :: Oral oxicity: LOAEL: 2 mg/kg body weight te, Teratogenic effects., Reduced embryonic



according to the Hazardous Products Regulations

Abamectin (0.6%) Liquid Formulation

Version 1.3	Revision Date: 11/27/2023	SDS Number: 10853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
•	roductive toxicity - As- sment	Test Type: De Species: Rat Application Ro Developmenta Result: Terato : Some evidenc fertility, based adverse effect	oute: Oral I Toxicity: LOAEL: 1.6 mg/kg body weight
1-[1	.3-Bis(hvdroxvmethvl)-	experiments.	din-4-yl]-1,3-bis(hydroxymethyl)urea:
_	cts on fetal development	: Test Type: Em Species: Rat Application Ro Result: negativ Test Type: Em Species: Rat	bryo-fetal development oute: Ingestion /e bryo-fetal development oute: Skin contact

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):

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

Repeated dose toxicity

Components:

Propylene glycol:

Species	:	Rat, male
NOAEL	:	>= 1,700 mg/kg
Application Route	:	Ingestion
Exposure time	:	2 у

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

Species	: Rat
NOAEL	: 1.5 mg/kg

according to the Hazardous Products Regulations



Abamectin (0.6%) Liquid Formulation

ersion 3	Revision Date: 11/27/2023	SDS Number: 10853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
Applic	ation Route	: Oral	
	ure time	: 24 Months	
	Organs	: Central nervous	system
Sympt		: Tremors, ataxia	
Specie		: Mouse	
NOAE		: 4.0 mg/kg	
	ation Route	: Oral	
	ure time	: 24 Months	avetem
Sympt	t Organs ioms	: Central nervous : Tremors, ataxia	system
Specie	es	: Dog	
NOAE		: 0.25 mg/kg	
LOAE	L	: 0.5 mg/kg	
Applic	ation Route	: Oral	
Expos	ure time	: 53 Weeks	
	Organs	: Central nervous	
Sympt		: Tremors, weight	
Remai	rks	: mortality observ	ed
Specie		: Monkey	
NOAE		: 1.0 mg/kg	
	ation Route	: Oral	
	ure time Organs	: 14 Weeks : Central nervous	system
ruiget	organo	. Contrai nervous	System
			n-4-yl]-1,3-bis(hydroxymethyl)urea:
Specie		: Rat	
NOAE		: 200 mg/kg	
	ation Route	: Ingestion	
Expos	ure time	: 92 Days	
Aspira	ation toxicity		
Not cla	assified based on ava	ailable information.	
Exper	ience with human e	xposure	
<u>Comp</u>	onents:		
	•		l avermectin B1b) (ISO):
Ingest	ion		r cause, Tremors, Diarrhea, central nervous Salivation, tearing
ECTION ²	12. ECOLOGICAL IN	IFORMATION	
Ecoto	xicity		
<u>Comp</u>	onents:		
Polya	lkylene oxide deriva	tive of a synthetic alc	ohol:
	ty to fish		mg/l

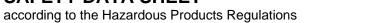
Exposure time: 96 h



Vers 1.3	ion	Revision Date: 11/27/2023		9S Number: 853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
				Remarks: Based of	on data from similar materials
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Propyle	ene glycol:			
	Toxicity	r to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 18,340 mg/l s h
	Toxicity plants	to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72 Method: OECD Te	
	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d
	ic toxici Toxicity	ty) to microorganisms	:	NOEC (Pseudomo Exposure time: 18	onas putida): > 20,000 mg/l 8 h
	abame	ctin (combination of a	ave	rmectin B1a and a	vermectin B1b) (ISO):
	Toxicity	•	:		hus mykiss (rainbow trout)): 3.2 µg/l
				LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 9.6 μg/l δ h
				LC50 (Ictalurus pu Exposure time: 96	unctatus (channel catfish)): 24 µg/l 5 h
				LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 42 μg/l δ h
				LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 μg/l δ h
		to daphnia and other invertebrates	:	EC50 (Americamy Exposure time: 96	
				EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.34 µg/l 8 h
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 100 ? h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32	es promelas (fathead minnow)): 0.52 μg/l 2 d



ersion 3	Revision Date: 11/27/2023		0S Number: 853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022			
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	: NOEC (Daphnia magna (Water flea)): 0.03 μg/l Exposure time: 21 d				
	City)		NOEC (Mysidops Exposure time: 28	is bahia (opossum shrimp)): 0.0035 μg/l 3 d			
Toxici	ity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir	h			
1-[1.3	-Bis(hvdroxvmethvl)-2	. 5- c	lioxoimidazolidin-	4-yl]-1,3-bis(hydroxymethyl)urea:			
	ity to fish	:		acrochirus (Bluegill sunfish)): > 67 mg/l			
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 58 mg/l 3 h			
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72				
			Method: Regulatio	on (EC) No. 440/2008, Annex, C.3			
			NOEC (Pseudokin mg/l	rchneriella subcapitata (green algae)): 1.6			
			Exposure time: 72	2 h on (EC) No. 440/2008, Annex, C.3			
Toxici	ity to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD T	h			
Persi	stence and degradabili	ity					
<u>Comp</u>	oonents:						
Polya	Ikylene oxide derivativ	/e o	f a synthetic alco	hol:			
Biode	gradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials			
Propy	/lene glycol:						
Biode	gradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28	98.3 %			
			Method: OECD T	est Guideline 301F			
abam	ectin (combination of a	ave	rmectin B1a and a	avermectin B1b) (ISO):			
Stabil	ity in water	:	Hydrolysis: 50 %(< 12 h)			
1-[1.3	-Bis(hydroxvmethvl)-2	.5-c	lioxoimidazolidin-	4-yl]-1,3-bis(hydroxymethyl)urea:			
	gradability	:	Result: Not readil Biodegradation: 2	y biodegradable.			
			40/00				





/ersion .3	Revision Date: 11/27/2023	SDS Number: 10853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
		Exposure time Method: Direc	e: 28 d tive 67/548/EEC Annex V, C.4.C.
Bioad	ccumulative potential		
Com	oonents:		
Partiti	ylene glycol: ion coefficient: n- ol/water	: log Pow: -1.0 Method: Regu	, lation (EC) No. 440/2008, Annex, A.8
	ectin (combination of		nd avermectin B1b) (ISO): ion factor (BCF): 52
	ion coefficient: n- ol/water	: log Pow: 4	
Partiti	B-Bis(hydroxymethyl)- ion coefficient: n- ol/water	: log Pow: < 0.9	din-4-yl]-1,3-bis(hydroxymethyl)urea:) D Test Guideline 117
Mobi	lity in soil		
<u>Com</u>	ponents:		
Distril	ectin (combination of bution among environ- al compartments		nd avermectin B1b) (ISO):
Othe	r adverse effects ata available		
ECTION	13. DISPOSAL CONSI	DERATIONS	
Dispo	osal methods		
-	e from residues		e of waste into sewer.
Conta	aminated packaging	: Empty contair handling site f	accordance with local regulations. lers should be taken to an approved waste or recycling or disposal. e specified: Dispose of as unused product.
SECTION	14. TRANSPORT INFO	ORMATION	

UNRTDG	

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(abamectin (combination of avermectin B1a and avermectin B1b) (ISO))
Class	: 9



Abamectin (0.6%) Liquid Formulation

Version 1.3	Revision Date: 11/27/2023	SDS Num 10853001		Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
Labels	g group nmentally hazardous	: III : 9 : no		
IATA-I UN/ID Proper			onmentally nectin (cor	hazardous substance, liquid, n.o.s. nbination of avermectin B1a and avermectin
Labels Packin aircraft	g instruction (cargo) g instruction (passen-	: 9 : III	llaneous	
IMDG- UN nu Proper		N.O.S	RONMENT 5. nectin (con	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels EmS C		: 9 : III : 9 : F-A, S : yes		
-	oort in bulk according		II of MAR	POL 73/78 and the IBC Code
	stic regulation			
TDG UN nu Proper	mber shipping name	N.O.S	RONMENT 5.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels ERG C		B1b) (: 9 : III : 9 : 171 : yes(al	(ISO))	combination of avermectin B1a and avermectin
Specia	al precautions for use		~, (100))	

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

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



Abamectin (0.6%) Liquid Formulation

Version 1.3	Revision Date: 11/27/2023	SDS Number: 10853001-00004	Date of last issue: 09/30/2023 Date of first issue: 09/15/2022
AICS		: not determined	
DSL		: not determined	
IECSO		: not determined	

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under
		the Occupational Health and Safety Act.
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)

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

Sources of key data used to compile the Material 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/
Revision Date Date format	:	11/27/2023 mm/dd/yyyy



Abamectin (0.6%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
1.3	11/27/2023	10853001-00004	Date of first issue: 09/15/2022

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.

CA / Z8