

Version 4.4	Revision Date: 27.08.2021		S Number: 0408-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016		
Section 1	: Identification					
Produ	uct name	:	Abamectin / F	Fluazuron Formulation		
Manu	Ifacturer or supplier'	s detai	ls			
Comp	bany	:	MSD			
Addre	Address		33 Whakatiki Street - Private Bag 908 Upper Hutt - New Zealand			
Telep	hone	:	+1-908-740-4000			
Emer	gency telephone num	ber :	+1-908-423-6	6000		
E-ma	il address	:	EHSDATASTEWARD@msd.com			
Reco	mmended use of the	chem	ical and restri	ictions on use		
Reco	mmended use	:	Veterinary pro	oduct		
Section 2	: Hazard identificatio	on				
GHS	Classification					
Flam	mable liquids	:	Category 3			

Acute toxicity (Inhalation)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H315 Causes skin irritation.



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		H319 Causes H332 Harmful H335 May cau H336 May cau H360D May da H373 May cau	use an allergic skin reaction. serious eye irritation. if inhaled. use respiratory irritation. use drowsiness or dizziness. amage the unborn child. use damage to organs (Central nervous system nged or repeated exposure.
Preca	autionary statements	· Prevention:	
		P202 Do not h and understoo P210 Keep av and other ignit P233 Keep co P241 Use exp ment. P242 Use non P243 Take ac P260 Do not b P264 Wash sh P271 Use only P272 Contam the workplace	vay from heat, hot surfaces, sparks, open flam tion sources. No smoking. Intainer tightly closed. Iosion-proof electrical/ ventilating/ lighting equin- sparking tools. tion to prevent static discharges. preathe mist or vapours. kin thoroughly after handling. y outdoors or in a well-ventilated area. inated work clothing should not be allowed out otective gloves/ protective clothing/ eye protect
		ly all contamin P304 + P340 and keep com doctor if you fe P305 + P351 for several min easy to do. Co P308 + P313 attention. P333 + P313 vice/ attention	 + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and pontinue rinsing. IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical advice/
		Storage: P403 + P235 P405 Store loo	Store in a well-ventilated place. Keep cool. cked up.
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste

Vapours may form explosive mixture with air.



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Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 30 -< 60
N-Methyl-2-pyrrolidone	872-50-4	>= 30 -< 60
Fluazuron	86811-58-7	< 10
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 1 -< 3
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3-carboxylate	2386-87-0	>= 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. 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 plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.
Protection 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



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	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
	Unsuita media	able extinguishing	:	High volume wate	r jet		
	Specific hazards during fire- fighting			Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.			
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (I Chlorine compour Fluorine compour	nds		
	Specific ods	c 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		
	for firef	l protective equipment ighters em Code	:	In the event of fire	e, wear self-contained breathing apparatus. ective equipment.		

Section 6: Accidental release measures

Personal precautions, protec- tive equipment and emer- gency procedures	:	Remove all sources of ignition. 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. Prevent spreading over a wide area (e.g. by containment or oil barriers). 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	:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable.



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		Sections 13 and 15 of this certain local or national re	SDS provide information regarding quirements.
Section 7	: Handling and storag		
Tech	nical measures	: See Engineering measure	
Local	/Total ventilation	ventilation. Use explosion-proof electr	navailable, use with local exhaust rical, ventilating and lighting equip-
Advic	e on safe handling	practice, based on the res sessment Non-sparking tools should Keep container tightly clos Already sensitised individu regarding working with res Keep away from heat, hot other ignition sources. No Take precautionary measu Do not eat, drink or smoke	bours. In handling. In good industrial hygiene and safety sults of the workplace exposure as- l be used. Sed. Juals should consult their physician spiratory irritants or sensitisers. Surfaces, sparks, open flames and smoking. Jures against static discharges.
Hygie	ene measures	 If exposure to chemical is flushing systems and safe place. When using do not eat, dr Contaminated work clothir workplace. Wash contaminated clothi The effective operation of engineering controls, prop appropriate degowning an 	ng should not be allowed out of the ng before re-use. a facility should include review of per personal protective equipment, id decontamination procedures, ing, medical surveillance and the
Cond	itions for safe storage	: Keep in properly labelled of Store locked up. Keep tightly closed. Keep in a cool, well-ventila	containers. ated place. he particular national regulations.
Mate	rials to avoid	 Do not store with the follow Self-reactive substances a Organic peroxides Oxidizing agents Flammable gases Pyrophoric liquids Pyrophoric solids 	wing product types:



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Self-heating substances and mixtures Poisonous gases Explosives

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Propan-2-ol	67-63-0	WES-TWA	400 ppm 983 mg/m3	NZ OEL	
		WES-STEL	500 ppm 1,230 mg/m3	NZ OEL	
		TWA	200 ppm	ACGIH	
		STEL	400 ppm	ACGIH	
N-Methyl-2-pyrrolidone	872-50-4	WES-TWA	25 ppm 103 mg/m3	NZ OEL	
	Further information: Skin absorption				
		WES-STEL	75 ppm 309 mg/m3	NZ OEL	
	Further inform	ation: Skin abso	rption		
Fluazuron	86811-58-7	TWA	60 µg/m3 (OEB 3)	Internal	
		Wipe limit	600 µg/ 100cm2	Internal	
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	

Components with workplace control parameters

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures

: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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.



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			are required to co		
			Use explosion-pro ment.	pof electrical, ventilating and lighting equip-	
Pers	onal protective equip	ment			
Resp	Respiratory protection Filter type Hand protection		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.		
			Combined particulates and organic vapour type		
М	aterial	:	Chemical-resistar	nt gloves	
R	emarks	:		gloving. Take note that the product is flam- y impact the selection of hand protection.	
Eye p	Eye protection		Wear safety glass If the work enviro mists or aerosols Wear a faceshield	ses with side shields or goggles. nment or activity involves dusty conditions, wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or	
Skin	and body protection	:	Work uniform or la Additional body g task being perform posable suits) to a	arments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially	

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour 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	:	28 °C
Evaporation rate	:	No data available

SAFETY DATA SHEET



Abamectin / Fluazuron Formulation

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	Flammability (solid, gas)		:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available)
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partition octanol	n coefficient: n- /water	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	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. Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.



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Section 1 [°]	1: Toxicological info	rmation		
Expos	sure routes	Ski Ing	alation in contact estion e contact	
	e toxicity ful if inhaled.			
Produ	uct:			
Acute	oral toxicity			stimate: > 2,000 mg/kg ation method
Acute	inhalation toxicity	Exp Tes	posure time: st atmospher	
Acute	dermal toxicity			stimate: > 2,000 mg/kg ation method
Com	oonents:			
Propa	an-2-ol:			
Acute	oral toxicity	: LD	50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	Exp	50 (Rat): > 2 posure time: st atmospher	6 h
Acute	dermal toxicity	: LD	50 (Rabbit):∷	> 5,000 mg/kg
N-Mo	thyl-2-pyrrolidone:			
	oral toxicity	: LD	50 (Rat): 4,1	50 mg/kg
Acute	inhalation toxicity	Exp Tes	50 (Rat): > 5 posure time: st atmospher thod: OECD	4 h _
Acute	dermal toxicity	: LD	50 (Rat): > 5	,000 mg/kg
Fluaz	uron:			
	oral toxicity		50 (Rat): > 5 thod: OECD	,000 mg/kg Test Guideline 401
Acute	inhalation toxicity	Exp Tes	50 (Rat): > 6 posure time: st atmospher thod: OECD	4 h
Acute	dermal toxicity	: LD	50 (Rat): > 2	,000 mg/kg



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		Method: C	ECD Test Guideline 402
abamo	ectin (combination	of avermectin B1	a and avermectin B1b) (ISO):
Acute	oral toxicity	: LD50 (Ra	:): 24 mg/kg
		LD50 (Mo	use): 10 mg/kg
			nkey): 24 mg/kg s: Dilatation of the pupil
Acute	inhalation toxicity	: LC50 (Ra Exposure Test atmo	
Acute	dermal toxicity	: LD50 (Ra	:): 330 mg/kg
		LD50 (Ra	obit): 2,000 mg/kg
7-Oxa	bicyclo[4.1.0]hept-3	-ylmethyl 7-oxal	bicyclo[4.1.0]heptane-3-carboxylate:
Acute	oral toxicity		:, male): 2,959 - 5,000 mg/kg DECD Test Guideline 401
Acute	inhalation toxicity	Exposure Test atmo Method: C	sphere: dust/mist DECD Test Guideline 436 ent: The substance or mixture has no acute inhala-
Acute	dermal toxicity	Method: C	:): > 2,000 mg/kg DECD Test Guideline 402 ent: The substance or mixture has no acute dermal
	corrosion/irritation		
	onents:		
Propa	in-2-ol:		
Specie		: Rabbit	
Result		: No skin in	itation
N-Met	hyl-2-pyrrolidone:		
Result	t	: Skin irritat	ion
Fluazu	uron:		
Specie		: Rabbit	
Metho Result		: OECD Te : No skin in	st Guideline 404
IVESUI	L	. INU SKIIT III	Italion



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abam	nectin (combination	of avermectin B1a and avermectin B1b) (ISO):	
Speci Resu		: Rabbit : No skin irritation	
7-0xa	abicyclo[4.1.0]hept-3	B-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	:
Speci		: Rabbit	
Metho Resu		: OECD Test Guideline 404 : No skin irritation	
Nesu	it i	. NO SKITTITIALION	
	ous eye damage/eye es serious eye irritatio		
	ponents:		
Prop	an-2-ol:		
Speci	ies	: Rabbit	
Resu	lt	: Irritation to eyes, reversing within 21 days	
N-Mo	thyl-2-pyrrolidone:		
Speci		: Rabbit	
Resu		: Irritation to eyes, reversing within 21 days	
- 1			
	zuron:	: Rabbit	
Speci Resu		: Mild eye irritation	
Metho		: OECD Test Guideline 405	
aham	ectin (combination	of avermectin B1a and avermectin B1b) (ISO):	
Speci	•	: Rabbit	
Resu		: Mild eye irritation	
7.0	- h : a		_
Speci		3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	:
Resu		: No eye irritation	
Metho	od	: OECD Test Guideline 405	
Resp	iratory or skin sensi	tisation	
Skin	sensitisation cause an allergic skin	reaction.	
-			
May o	-		
May o Resp	iratory sensitisation lassified based on ava		
May o Resp Not c	iratory sensitisation		
May o Resp Not c <u>Com</u>	iratory sensitisation lassified based on ava		
May of Resp Not c Com Propa	iratory sensitisation lassified based on ava ponents: an-2-ol: Type	ailable information. : Buehler Test	
May of Resp Not of Comp Propa Test	iratory sensitisation lassified based on ava ponents: an-2-ol: Type sure routes	ailable information. : Buehler Test : Skin contact	
May of Resp Not c Com Propa	iratory sensitisation lassified based on ava ponents: an-2-ol: Type sure routes ies	ailable information. : Buehler Test	



rsion L	Revision Date: 27.08.2021	SDS Number:Date of last issue: 26.04.2021800408-00018Date of first issue: 12.07.2016			
Resul	t	: negative			
N-Met	thyl-2-pyrrolidone:				
Test T	уре	: Local lymph node assay (LLNA)			
	sure routes	: Skin contact			
Speci		: Mouse			
Metho Resul		: OECD Test Guideline 429 : negative			
Rema		: Based on data from similar materials			
Fluaz	uron:				
Expos	sure routes	: Skin contact			
Speci		: Guinea pig			
Resul	t	: negative			
abam	ectin (combination	f avermectin B1a and avermectin B1b) (ISO):			
Test T		: Maximisation Test			
	sure routes	: Skin contact			
Resul	t	: Not a skin sensitizer.			
		ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:			
Test T		: Maximisation Test			
	sure routes	: Skin contact			
Speci Resul		: Guinea pig : positive			
Asses	sment	: Probability or evidence of skin sensitisation in humans			
Chror	nic toxicity				
Germ	cell mutagenicity				
	assified based on ava	ilable information.			
	oonents:				
-	an-2-ol:				
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
		Test Type: In vitro mammalian cell gene mutation test Result: negative			
Genot	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative 			
	thyl-2-pyrrolidone:				
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471			



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		Result: negative	
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative	
		Test Type: DNA damage and repair, unscheduled DNA sy thesis in mammalian cells (in vitro) Result: negative	'n-
Genot	toxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative	'ivo
		Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Hamster Application Route: Ingestion Method: OECD Test Guideline 475 Result: negative	1
Fluaz	uron:		
Genot	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
		Test Type: DNA Repair Result: negative	
		Test Type: In vitro mammalian cell gene mutation test Result: negative	
Genot	toxicity in vivo	: Test Type: Cytogenetic assay Species: Hamster Result: equivocal	
abam	ectin (combination	of avermectin B1a and avermectin B1b) (ISO):	
Genot	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
		Test Type: In vitro mammalian cell gene mutation test 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	I
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7-Oxa	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyd	clo[4.1.0]heptane-3-carboxylate:
	toxicity in vitro		vitro mammalian cell gene mutation test
Geno	toxicity in vivo	mammalian liv Species: Rat Application Ro Method: OECE Result: negativ Test Type: Mic Species: Mous Application Ro	ute: Ingestion D Test Guideline 486 /e cronucleus test se ute: Intraperitoneal injection
	cell mutagenicity - ssment	Result: negative : Weight of evidencell mutagen.	ence does not support classification as a gerr
	nogenicity lassified based on av	ailable information.	
<u>Comp</u>	ponents:		
-	an-2-ol:		
	cation Route sure time od	: Rat : inhalation (vap : 104 weeks : OECD Test Gu : negative	
N-Me	thyl-2-pyrrolidone:		
Speci Applic	es cation Route sure time	: Rat : Ingestion : 2 Years : negative	
	cation Route sure time	: Rat : inhalation (vap : 2 Years : negative	our)
Fluaz	uron:		
Speci Applic	es cation Route sure time od	: Rat : Ingestion : 2 Years : OECD Test Gu : negative	uideline 453
Speci Applio	es cation Route	: Mouse : Ingestion	



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Expos Resul	sure time t	: 2 Years : negative	
abam	ectin (combination o	of avermectin B1a a	nd avermectin B1b) (ISO):
	cation Route sure time	: Rat : Oral : 105 weeks : negative	
	cation Route sure time	: Mouse : Oral : 93 weeks : negative	
•	oductive toxicity lamage the unborn ch	ild.	
Comp	oonents:		
-	an-2-ol:		
Effect	s on fertility	Species: Rat	vo-generation reproduction toxicity study oute: Ingestion ive
Effect ment	s on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion ive
N-Me	thyl-2-pyrrolidone:		
Effect	s on fertility	Species: Rat Application R	vo-generation reproduction toxicity study oute: Ingestion D Test Guideline 416 ive
Effect ment	s on foetal develop-	Species: Rat Application R	mbryo-foetal development oute: Ingestion D Test Guideline 414 ve
		Species: Rat	ertility/early embryonic development oute: inhalation (vapour) ve
		Species: Rab	oute: Ingestion



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	Reproductive toxicity - As- sessment		: Clear evidence of adverse effects on development, animal experiments.		
Fluaz	uron:				
Effect	Effects on fertility		Test Type: Two- Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion	
Effect ment	Effects on foetal develop- ment		Test Type: Embry Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion	
			Species: Rabbit Application Route	yo-foetal development e: Ingestion est Guideline 414	
abam	ectin (combination of	fave	rmectin B1a and	avermectin B1b) (ISO):	
Effect	ts on fertility	:	Test Type: Fertili Species: Rat, ma Application Route Result: Effects or	le e: Oral	
			Species: Rat Application Route	Development: NOAEL: 0.12 mg/kg body	
Effect ment	Effects on foetal develop- ment		Species: Mouse Application Route General Toxicity Developmental T Result: Cleft pala	Maternal: NOAEL: 0.05 mg/kg body weight oxicity: NOAEL: 0.2 mg/kg body weight	
			Species: Rabbit Application Route Developmental T Result: Cleft pala survival	yo-foetal development e: Oral oxicity: LOAEL: 2 mg/kg body weight te, Teratogenic effects, Reduced embryonic se developmental effects were observed	
			Test Type: Devel Species: Rat Application Route Developmental T Result: Teratoge	e: Oral oxicity: LOAEL: 1.6 mg/kg body weight	



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Repro sessn	oductive toxicity - As- nent	:	fertility, based	e of adverse effects on sexual function and on animal experiments., Some evidence of on development, based on animal experi-
7-Oxa	abicyclo[4.1.0]hept-3	-ylme	thyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Effect ment	s on foetal develop-	:	Species: Rat Application Ro	Test Guideline 414
May c	- single exposure cause respiratory irritat cause drowsiness or d		SS.	
-	oonents:			
Propa	an-2-ol:			
Asses	ssment	:	May cause dro	wsiness or dizziness.
N-Me	thyl-2-pyrrolidone:			
	thyl-2-pyrrolidone: ssment	:	May cause res	piratory irritation.
Asses STOT May c	- repeated exposure			piratory irritation. vstem) through prolonged or repeated exposure
Asses STOT May o Comp abam	- repeated exposure cause damage to organ conents: nectin (combination c	ns (Ce	entral nervous sy rmectin B1a an	
Asses STOT May c Comp abam Expos	- repeated exposure cause damage to organ <u>conents:</u> ectin (combination consure routes	ns (Ce	entral nervous sy rmectin B1a an Ingestion	vstem) through prolonged or repeated exposure d avermectin B1b) (ISO):
Asses STOT May c Comp abam Expos Targe	- repeated exposure cause damage to organ conents: nectin (combination c	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou	vstem) through prolonged or repeated exposure d avermectin B1b) (ISO):
Asses STOT May c Comp abam Expos Targe Asses	- repeated exposure cause damage to organ conents: ectin (combination c sure routes of Organs	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou Causes damag	vstem) through prolonged or repeated exposure d avermectin B1b) (ISO): s system
Asses STOT May c Comp abam Expos Targe Asses Repea	- repeated exposure cause damage to organ <u>conents:</u> ectin (combination c sure routes of Organs ssment	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou Causes damag	vstem) through prolonged or repeated exposure d avermectin B1b) (ISO): s system
Asses STOT May c Comp abam Expos Targe Asses Repea	- repeated exposure cause damage to organ conents: ectin (combination of sure routes of Organs ssment ated dose toxicity	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou Causes damag	vstem) through prolonged or repeated exposure d avermectin B1b) (ISO): s system
Asses STOT May c Comp abam Expos Targe Asses Repea Comp Propa Speci	- repeated exposure cause damage to organ <u>conents:</u> ectin (combination of sure routes of Organs ssment ated dose toxicity <u>conents:</u> an-2-ol: es	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou Causes damag exposure.	/stem) through prolonged or repeated exposur d avermectin B1b) (ISO): s system
Asses STOT May of Comp Abam Expos Targe Asses Repea Comp Propa Speci NOAE	- repeated exposure cause damage to organ <u>conents:</u> ectin (combination of sure routes et Organs ssment ated dose toxicity <u>conents:</u> an-2-ol: es EL	ns (Ce	rmectin B1a an Ingestion Central nervou Causes damag exposure. Rat 12.5 mg/l	vstem) through prolonged or repeated exposur d avermectin B1b) (ISO): s system le to organs through prolonged or repeated
Asses STOT May of Comp abam Expos Targe Asses Repea Comp Propa Speci NOAE	- repeated exposure cause damage to organ <u>conents:</u> ectin (combination of sure routes of Organs ssment ated dose toxicity <u>conents:</u> an-2-ol: es	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou Causes damag exposure.	vstem) through prolonged or repeated exposure d avermectin B1b) (ISO): s system le to organs through prolonged or repeated
Asses STOT May c Comp abam Expos Targe Asses Repea Comp Propa Speci NOAE Applic Expos	- repeated exposure cause damage to organ <u>conents:</u> ectin (combination of sure routes of Organs ssment ated dose toxicity <u>conents:</u> an-2-ol: es EL cation Route	ns (Ce	rmectin B1a an Ingestion Central nervou Causes damag exposure. Rat 12.5 mg/l inhalation (vap	vstem) through prolonged or repeated exposur d avermectin B1b) (ISO): is system ie to organs through prolonged or repeated
Asses STOT May of Comp abam Expos Targe Asses Repea Comp Propa Speci NOAE Applic Expos	 repeated exposure cause damage to organ rectin (combination of sure routes of Organs asment ated dose toxicity conents: ated dose toxicity conents: an-2-ol: es cation Route sure time thyl-2-pyrrolidone: es 	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou Causes damag exposure. Rat 12.5 mg/l inhalation (vap 104 Weeks Rat, male	vstem) through prolonged or repeated exposur d avermectin B1b) (ISO): is system ie to organs through prolonged or repeated
Asses STOT May of Comp abam Expos Targe Asses Repea Asses Repea Propa Speci NOAE Applic Expos	 repeated exposure cause damage to organ rectin (combination of sure routes of Organs asment ated dose toxicity conents: an-2-ol: es cation Route sure time thyl-2-pyrrolidone: es cation Route 	ns (Ce	rmectin B1a an Ingestion Central nervou Causes damag exposure. Rat 12.5 mg/l inhalation (vap 104 Weeks Rat, male 169 mg/kg	vstem) through prolonged or repeated exposur d avermectin B1b) (ISO): is system ie to organs through prolonged or repeated
Asses STOT May of Comp Expos Targe Asses Repea Comp Propa Speci NOAE Applic Expos NOAE	 repeated exposure cause damage to organ rectin (combination of sure routes of Organs asment ated dose toxicity conents: an-2-ol: es cation Route sure time thyl-2-pyrrolidone: es cation Route 	ns (Ce	entral nervous sy rmectin B1a an Ingestion Central nervou Causes damag exposure. Rat 12.5 mg/l inhalation (vap 104 Weeks Rat, male	vstem) through prolonged or repeated exposur d avermectin B1b) (ISO): s system le to organs through prolonged or repeated



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Metho	Method		OECD Test Guide	eline 408
Expos Metho	L L ation Route ure time d	:	Rat 0.5 mg/l 1 mg/l inhalation (dust/m 96 Days OECD Test Guide Rabbit	
	L		826 mg/kg 1,653 mg/kg Skin contact 20 Days	
Fluazu	uron:			
Expos			Rat 240 mg/kg Ingestion 13 Weeks Liver, Thyroid, Pit	uitary gland
	L	:	Rat 10 mg/kg 100 mg/kg Skin contact 3 Weeks	
Expos	L		Dog 7.5 mg/kg 110 mg/kg Ingestion 52 Weeks Liver	
abame	ectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
Specie NOAE Applica Expos	es L ation Route ure time t Organs		Rat 1.5 mg/kg Oral 24 Months Central nervous s Tremors, ataxia	
Expos	L ation Route ure time Organs		Mouse 4.0 mg/kg Oral 24 Months Central nervous s Tremors, ataxia	system
Specie NOAE LOAEI Applica	L	:	Dog 0.25 mg/kg 0.5 mg/kg Oral	



/ersion I.4	Revision Date: 27.08.2021		DS Number: 0408-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016
Targ	osure time et Organs ptoms arks	::	53 Weeks Central nervous s Tremors, weight le mortality observed	DSS
Expo		:	Monkey 1.0 mg/kg Oral 14 Weeks Central nervous s	ystem
•	ration toxicity classified based on availa	ble	information.	
Expe	erience with human exp	osı	ıre	
Com	ponents:			
	ethyl-2-pyrrolidone:			
Skin	contact	:	Symptoms: Skin i	rritation
abar Inges	nectin (combination of a stion	ave :		ause, Tremors, Diarrhoea, central nervous
Section 1	2: Ecological information	on		
Ecot	oxicity			
	ponents:			
Prop	an-2-ol:			
•	city to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 9,640 mg/l 5 h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10,000 mg/l I h
Toxid	city to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1,050 mg/l 5 h
N-Me	ethyl-2-pyrrolidone:			
	city to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 500 mg/l 3 h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: DIN 3847	
Toxic plant	city to algae/aquatic s	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): 600.5 mg/l ? h
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 92.6 mg/l ? h



ersion 4	Revision Date: 27.08.2021		0S Number: 0408-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxic	ity to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 Method: ISO 8192) min
Fluaz	zuron:			
Toxic	ity to fish	:	LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): > 9.1 mg/l ≩ h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia sr Exposure time: 48	o. (water flea)): 0.0006 mg/l 3 h
Toxic plants	ity to algae/aquatic s	:	NOEC (Raphidoca 27.9 mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 2 h
abam	nectin (combination of a	ave	rmectin B1a and a	avermectin B1b) (ISO):
Toxic	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 3.2 µg/l Sh
			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 S h
			LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 42 µg/l ≩ h
			LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 μg δ h
	ity to daphnia and other tic invertebrates	:	EC50 (Americamy Exposure time: 96	
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.34 μg/l } h
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 100 2 h
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32	es promelas (fathead minnow)): 0.52 μg/l 2 d
aqua	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.03 µg/l I d
ic tox	ICITY)		NOEC (Mysidopsi Exposure time: 28	is bahia (opossum shrimp)): 0.0035 μg/l 3 d



	Revision Date: 27.08.2021		0S Number: 0408-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016
Toxici	ity to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Test Type: Respi	ĥ
	abicyclo[4.1.0]hept-3-y ity to fish	lme :	LC50 (Oncorhyno	[4.1.0]heptane-3-carboxylate: hus mykiss (rainbow trout)): 24 mg/l
			Exposure time: 9 Method: OECD T	est Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 40 mg/l 3 h est Guideline 202
Toxici plants	ity to algae/aquatic	:	Exposure time: 7	um capricornutum (green algae)): > 110 m 2 h est Guideline 201
			NOEC (Selenasti Exposure time: 7 Method: OECD T	
Toxici	ity to microorganisms	:	Exposure time: 3	croorganism): 409 mg/l h est Guideline 209
Persi	stence and degradabil	ity		
<u>Comp</u>	oonents:			
Propa	an-2-ol:	•	Result: rapidly de	aradable
Biode	gradability	•		gradable
Biode BOD/		:	BOD: 1.19 (BOD	5)COD: 2.23BOD/COD: 53 %
BOD/		:	BOD: 1.19 (BOD	-
BOD/0 N-Me t	COD	:	Result: Readily b	5)COD: 2.23BOD/COD: 53 %
BOD/0 N-Me t	COD thyl-2-pyrrolidone:	:		5)COD: 2.23BOD/COD: 53 % odegradable. 73 %
BOD/0 N-Me t	COD thyl-2-pyrrolidone:	:	Result: Readily b Biodegradation: Exposure time: 2	5)COD: 2.23BOD/COD: 53 % odegradable. 73 %
BOD/ N-Me t Biode	COD thyl-2-pyrrolidone: gradability	: : ave	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	5)COD: 2.23BOD/COD: 53 % odegradable. 73 % 3 d
BOD/ N-Me Biode	COD thyl-2-pyrrolidone: gradability	: ave	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T rmectin B1a and a	5)COD: 2.23BOD/COD: 53 % odegradable. 73 % 3 d est Guideline 301C avermectin B1b) (ISO):
BOD/ N-Met Biode abam Stabil	COD thyl-2-pyrrolidone: gradability ectin (combination of a ity in water	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T rmectin B1a and a Hydrolysis: 50 %	5)COD: 2.23BOD/COD: 53 % odegradable. 73 % 3 d est Guideline 301C avermectin B1b) (ISO):
BOD/ N-Met Biode abam Stabil	COD thyl-2-pyrrolidone: gradability ectin (combination of a ity in water	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T rmectin B1a and a Hydrolysis: 50 % thyl 7-oxabicyclo Biodegradation: Exposure time: 2	5)COD: 2.23BOD/COD: 53 % dodegradable. 73 % 3 d est Guideline 301C avermectin B1b) (ISO): (< 12 h) [4.1.0]heptane-3-carboxylate: 71 %



Version 4.4	Revision Date: 27.08.2021		OS Number: 0408-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016
Bioa	ccumulative potential			
Com	ponents:			
Prop	an-2-ol:			
	ion coefficient: n- ol/water	:	log Pow: 0.05	
N-Me	thyl-2-pyrrolidone:			
	ion coefficient: n- iol/water	:	log Pow: -0.46 Method: OECI	5 D Test Guideline 107
Fluaz	zuron:			
	ion coefficient: n- ol/water	:	log Pow: 5.1	
aban	nectin (combination o	f ave	rmectin B1a ar	nd avermectin B1b) (ISO):
Bioad	cumulation	:	Bioconcentrati	on factor (BCF): 52
	ion coefficient: n- ol/water	:	log Pow: 4	
7-0x	abicyclo[4.1.0]hept-3-	ylme	thyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- iol/water	:	log Pow: 1.34	
Mobi	lity in soil			
Com	ponents:			
aban	nectin (combination o	f ave	rmectin B1a ar	nd avermectin B1b) (ISO):
	bution among environ- al compartments	:	log Koc: > 3.6	
Othe	r adverse effects			
No da	ata available			
Section 1	3: Disposal considera	ation	5	
Ξ.				
-	osal methods	_	Dispersed	
	e from residues aminated packaging		Empty contain dling site for re Empty contain Do not pressu	accordance with local regulations. ers should be taken to an approved waste har ecycling or disposal. ers retain residue and can be dangerous. rize, cut, weld, braze, solder, drill, grind, or ex- tainers to heat, flame, sparks, or other source

Section 14: Transport information

International Regulations

UNRTDG UN numbe

of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.



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	Proper shipping name Class Packing group Labels IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) IMDG-Code UN number Proper shipping name		:	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol) 3 III 3 UN 1993 Flammable liquid, n.o.s. (Propan-2-ol) 3 III Flammable Liquids 366			
			:				
			:	355			
			:	 UN 1993 FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Fluazuron, abamectin (combination of averm tin B1a and avermectin B1b) (ISO)) 			
	Labels EmS C	g group ode pollutant	: : : : : : : : : : : : : : : : : : : :	111 B Ta and aven 3 III 3 F-E, <u>S-E</u> yes			
	-	ort in bulk according	g to Annex II of MARPOL 73/78 and the IBC Code supplied.				
	National Regulations						
	Class		:	UN 1993 FLAMMABLE LIC (Propan-2-ol) 3 III 3	QUID, N.O.S.		
	Hazche	em Code	:	3Y			

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 environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2017



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	HSW Controls Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further ir formation.						
		omponents of this pro	oduc	-	the following inventories:		
	AICS		:	not determined			
	DSL		:	not determined			
	IECSC :			not determined			
Sec	Section 16: Other information						
	Furthe	er information					
		es of key data used to e the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/		
	Date format		:	dd.mm.yyyy			
	Full te	xt of other abbreviation	ons				
	ACGIH ACGIH NZ OE	I BEI	:	ACGIH - Biologic	eshold Limit Values (TLV) al Exposure Indices (BEI) orkplace Exposure Standards for Atmospher-		
	ACGI⊦ NZ OE	I / TWA I / STEL EL / WES-TWA EL / WES-STEL	: :				

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 Develop-



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ment; 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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