



Versi 7.0	ion	Revision Date: 09.07.2024		S Number: 69-00026	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
	TION 1 Product	: IDENTIFICATION t name	:	Indoxacarb / Perr	methrin Formulation
I	Manufa	acturer or supplier's d	letai	ls	
(Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)
,	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia	
-	Telepho	one	:	1 800 033 461	
I	Emerge	ency telephone number	:	Poisons Informat	ion Centre: Phone 13 11 26
I	E-mail a	address	:	EHSDATASTEW	/ARD@msd.com
I	Recommended use of the che		nemi	ical and restrictio	ons on use
		mended use tions on use	:	Veterinary produce Not applicable	ct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin sensitisation	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 1 (Blood, Nervous system, Heart)
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H302 + H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction.



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		H372 Causes	use drowsiness or dizziness. damage to organs (Blood, Nervous system, n prolonged or repeated exposure.
Preca	autionary statements	Prevention:	
		and other ign P233 Keep co P241 Use exp ment. P242 Use not P243 Take ac P260 Do not P264 Wash s P270 Do not P271 Use on P272 Contam the workplace	otective gloves/ protective clothing/ eye protec-
		CENTER/ dod P303 + P361 ly all contamin P304 + P340 and keep con doctor if you f P314 Get me	dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad-
		Storage: P403 + P235 P405 Store lo	Store in a well-ventilated place. Keep cool. cked up.
		Disposal:	of contents/ container to an approved waste
Cutar er, the	neous sensations may	no lesions and are of	ation ng or stinging on the face and mucosae. Howev- a transitory nature (max. 24 hours).
ECTION	3. COMPOSITION/IN	FORMATION ON INC	GREDIENTS
Subst	tance / Mixture	: Mixture	
Com	ponents		
	nical name		CAS-No. Concentration (% w/w)



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Permethrin (ISO)	52645-53-1	>= 30 -< 60
1-Methoxy-2-propanol	107-98-2	>= 30 -< 60
Indoxacarb (ISO)	173584-44-6	>= 10 -< 30

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 if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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	:	 Harmful if swallowed or if inhaled. May cause an allergic skin reaction. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate
Protection of first-aiders	:	or organophosphate poisoning. 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. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water 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.



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Haz ucts	ardous combustion prod-	:	Carbon oxides Chlorine compour	nds	
Spe ods	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local of cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so.		
for f	cial protective equipment refighters chem Code	:		e, wear self-contained breathing apparatus. tective equipment.	
SECTIO	N 6. ACCIDENTAL RELE	ASI	E MEASURES		
tive	sonal precautions, protec- equipment and emer- cy procedures	:	Follow safe handl	es of ignition. tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).	
Env	ironmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages	
	nods and materials for ainment and cleaning up	:	Soak up with iner Suppress (knock spray jet. For large spills, pr ment to keep mat be pumped, store Clean up remainin bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and 1	as should be used. t absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In g materials from spill with suitable absor- regulations may apply to releases and dis- trial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding tional requirements.	

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures und	er EXPOSURE
	CONTROLS/PERSONAL PRO	FECTION section.
Local/Total ventilation	: If sufficient ventilation is unavail ventilation. Use explosion-proof electrical, v	



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		ment.			
Advice on safe handling		Do not breath Do not swallow Avoid contact Wash skin tho Handle in acco practice, base sessment Non-sparking Keep containe Keep away fro other ignition s Take precaution Do not eat, dro	 Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the 		
Hyg	iene measures	: If exposure to flushing system place. When using d Contaminated workplace.	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. work clothing should not be allowed out of the inated clothing before re-use.		
Con	ditions for safe storage	: Keep in prope Store locked u Keep tightly cl Keep in a coo Store in accor	rly labelled containers. ip.		
Mat	erials to avoid	: Do not store w Self-reactive s Organic perox Oxidizing age Flammable ga Pyrophoric liq Pyrophoric so	vith the following product types: substances and mixtures ides nts uses uids lids ubstances and mixtures		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Permethrin (ISO)	52645-53-1	TWA	80 µg/m3 (OEB 3)	Internal
		Wipe limit	800 µg/100 cm ²	Internal
1-Methoxy-2-propanol	107-98-2	TWA	100 ppm	AU OEL
			369 mg/m3	



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			STEL	150 ppm 553 mg/m3	AU OEL
			TWA	50 ppm	ACGIH
			STEL	100 ppm	ACGIH
Indoxacarb (ISO)		173584-44-6	TWA	50 µg/m3 (OEB 3)	Internal
		Further informa			-
			Wipe limit	100 µg/100 cm2	Internal
Engineering measures	:	If sufficient ve ventilation.	ntilation is unav	concentrations. ailable, use with local , ventilating and lighti	
Personal protective equipn	nent				
Respiratory protection	:	sure assessm	ent demonstrate	tilation is not available es exposures outside spiratory protection.	
Filter type Hand protection	:			ganic vapour type	
Material	:	Chemical-resi	stant gloves		
Remarks	:	on the concer stance and sp determined fo applications, w chemicals of t glove manufat which may im hands before	tration and quar becific to place or r the product. C we recommend of he aforementior cturer. Take not pact the selection breaks and at the	ds against chemicals ntity of the hazardous f work. Breakthrough hange gloves often! F clarifying the resistan ned protective gloves e that the product is f on of hand protection. ne end of workday.	s sub- time is not for special ce to with the lammable,
Eye protection	:		wing personal p	rotective equipment:	
Skin and body protection	:	Select approp resistance dat potential. Wear the follo If assessment atmospheres protective clot Skin contact n	riate protective a and an asses wing personal p demonstrates t or flash fires, us hing.	clothing based on che sment of the local exp rotective equipment: hat there is a risk of e e flame retardant ant by using impervious s. etc).	oosure explosive istatic

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Clear white to yellow.
Odour	: ether-like

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C	Odour Ti	hreshold	:	No data available	9
F	ъH		:	No data available)
Ν	Melting p	point/freezing point	:	No data available	9
	nitial bo ange	iling point and boiling	:	No data available	9
F	-lash po	int	:	33.5 °C	
E	Evapora	tion rate	:	No data available	
F	-lammal	oility (solid, gas)	:	Not applicable	
F	-lammal	oility (liquids)	:	No data available	9
		plosion limit / Upper ility limit	:	No data available	9
		plosion limit / Lower ility limit	:	No data available	
١	√apour p	pressure	:	No data available)
F	Relative	vapour density	:	No data available)
F	Relative	density	:	1.096	
[Density		:	No data available	9
S	Solubility Wate	r(ies) r solubility	:	No data available	9
		coefficient: n-	:	Not applicable	
	octanol/v Auto-ign	vater ition temperature	:	No data available	9
[Decomp	osition temperature	:	No data available	9
١	√iscosity Visco	, sity, kinematic	:	No data available	
E	Explosiv	e properties	:	Not explosive	
C	Oxidizinę	g properties	:	The substance o	r mixture is not classified as oxidizing.
Ν	Molecula	ar weight	:	No data available	9
F	Particle	characteristics			



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Partic	cle size	:	Not applicable	
CTION	10. STABILITY AND RE	EAC	TIVITY	
	tivity nical stability ibility of hazardous reac-	:	Stable under r Flammable liq Vapours may	as a reactivity hazard. normal conditions. uid and vapour. form explosive mixture with air. n strong oxidizing agents.
Incon	itions to avoid npatible materials rdous decomposition ucts	::	Heat, flames a Oxidizing ager No hazardous	
CTION	11. TOXICOLOGICAL I	NFO	ORMATION	
Expo	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed or if inha	led.		
Prod	uct:		• • • • •	
ACUITE	a seal that the total		Acute toxicity e	stimate: 609.38 mg/kg
/ toute	e oral toxicity	:	Method: Calcul	ation method
	e oral toxicity	:	Method: Calcul	stimate: 4.48 mg/l 4 h re: dust/mist
Acute		:	Method: Calcul Acute toxicity e Exposure time: Test atmosphe	stimate: 4.48 mg/l 4 h re: dust/mist
Acute	e inhalation toxicity	:	Method: Calcul Acute toxicity e Exposure time: Test atmosphe	stimate: 4.48 mg/l 4 h re: dust/mist
Acute <u>Com</u>	e inhalation toxicity	:	Method: Calcul Acute toxicity e Exposure time: Test atmosphe	estimate: 4.48 mg/l 4 h re: dust/mist ation method
Acute	e inhalation toxicity ponents: nethrin (ISO):	:	Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul	estimate: 4.48 mg/l 4 h re: dust/mist ation method 0 - 554 mg/kg 8 mg/l 4 h
Acute Com Perm Acute	e inhalation toxicity ponents: ethrin (ISO): e oral toxicity	:	Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul LD50 (Rat): 48 LC50 (Rat): 2.3 Exposure time:	estimate: 4.48 mg/l 4 h re: dust/mist ation method 0 - 554 mg/kg 8 mg/l 4 h re: dust/mist
Acute Com Perm Acute Acute	e inhalation toxicity ponents: hethrin (ISO): e oral toxicity e inhalation toxicity e dermal toxicity	:	Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul LD50 (Rat): 48 LC50 (Rat): 2.3 Exposure time: Test atmosphe	estimate: 4.48 mg/l 4 h re: dust/mist ation method 0 - 554 mg/kg 8 mg/l 4 h re: dust/mist
Acute	e inhalation toxicity ponents: ethrin (ISO): e oral toxicity e inhalation toxicity	: : : : :	Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul LD50 (Rat): 48 LC50 (Rat): 2.3 Exposure time: Test atmosphe	estimate: 4.48 mg/l 4 h re: dust/mist ation method 0 - 554 mg/kg 8 mg/l 4 h re: dust/mist > 2,000 mg/kg



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I				Test atmosphere:	vapour
	Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Assessment: The toxicity	00 mg/kg substance or mixture has no acute dermal
••	Indoxa	acarb (ISO):			
		oral toxicity	:	LD50 (Rat, female Symptoms: Loss	e): 179 mg/kg of reflexes, Breathing difficulties, Tremors
				LD50 (Rat, male)	: 843 mg/kg
	Acute	inhalation toxicity	:	LC50 (Rat, female Exposure time: 4 Test atmosphere:	h
	Acute	dermal toxicity	:	LD50 (Rat, male	and female): > 5,000 mg/kg
	Not cla	orrosion/irritation assified based on avail onents:	able	information.	
		ethrin (ISO):			
I	Specie Result	es	:	Rabbit No skin irritation	
	1-Met	noxy-2-propanol:			
1	Specie Result	es	:	Rabbit No skin irritation	
	Indoxa	acarb (ISO):			
	Result	. ,	:	No skin irritation	
		is eye damage/eye ir assified based on avail			
	<u>Comp</u>	onents:			
	Perme	ethrin (ISO):			
	Specie Result		:	Rabbit No eye irritation	
	1-Meth	noxy-2-propanol:			
	Specie Result	es	:	Rabbit No eye irritation	





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Indo: Resu	xacarb (ISO): Ilt	: No eye irrit	ation
-	biratory or skin sens	itisation	
	sensitisation cause an allergic skin	reaction.	
	piratory sensitisation		
Not c	classified based on av	ailable information.	
<u>Com</u>	ponents:		
	nethrin (ISO):		
	Type sure routes	: Buehler Te : Skin conta	
Spec		: Guinea pig	
Resu	ılt	: positive	
Asse	ssment	: Probability	or evidence of skin sensitisation in humans
1-Me	thoxy-2-propanol:		
	Type	: Maximisati	
Expo Spec	sure routes ies	: Skin conta : Guinea pig	
Resu		: negative	
	xacarb (ISO):		
Test Spec	Туре	: Maximisati : Guinea pig	
Resu		: positive	
Chro	onic toxicity		
Gern	n cell mutagenicity		
Not c	classified based on av	ailable information.	
<u>Com</u>	ponents:		
Perm	nethrin (ISO):		
Geno	otoxicity in vitro	: Test Type: Result: neç	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative
		Test Type: Result: neg	Chromosome aberration test in vitro gative
			DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro)
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			chromosome aberration test in vitro
Genotoxic	ity in vivo	cytogenetic a Species: Mo	lammalian erythrocyte micronucleus test (in viv assay) use
			futagenicity (in vivo mammalian bone-marrow est, chromosomal analysis) use
		Test Type: R Species: Mo Result: nega	
		cytogenetic a Species: Rat	Route: Intraperitoneal injection
		cytogenetic t Species: Mo	Route: Ingestion
Germ cell Assessme	mutagenicity - ent	: Weight of ev cell mutagen	idence does not support classification as a ger
1-Methox	y-2-propanol:		
Genotoxic		: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: C Result: nega	Chromosome aberration test in vitro tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
		Test Type: Ir malian cells Result: equiv	n vitro sister chromatid exchange assay in man vocal
		thesis in mar	NA damage and repair, unscheduled DNA syr nmalian cells (in vitro) CD Test Guideline 482



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Genot	oxicity in vivo	cytogenet Species: M	Mouse n Route: Intraperitoneal injection
I		Result. He	gauve
Indox	acarb (ISO):		
Genot	oxicity in vitro	: Test Type Result: ne	: Bacterial reverse mutation assay (AMES) gative
			: Chromosomal aberration em: mammalian cells gative
			: In vitro mammalian cell gene mutation test em: Chinese hamster ovary cells gative
Genot	oxicity in vivo	Species: N	Bone marrow
Not cla <u>Comp</u>	nogenicity assified based on ava ponents: ethrin (ISO):	ilable information	ı.
Specie Result		· Dot	
Result	es	: Rat : negative	
Specie Result	es		
Specie Result	es	: negative : Mouse	
Specie Result 1-Met	t h oxy-2-propanol: es ation Route ure time d	: negative : Mouse : negative : Rat : inhalation : 2 Years	(vapour) st Guideline 453
Specie Result Specie Applic Expos Metho Result	t h oxy-2-propanol: es ation Route ure time d	: negative : Mouse : negative : Rat : inhalation : 2 Years : OECD Tes	
Specie Result Specie Applic Expos Metho Result Indox	t hoxy-2-propanol: es ation Route ure time d t acarb (ISO): es ation Route ure time ency of Treatment	 negative Mouse negative Rat inhalation 2 Years OECD Tes negative 	st Guideline 453 and female

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Expos	cation Route sure time ency of Treatment	: Mouse, ma : oral (feed) : 18 Months : daily : negative	le and female
-	oductive toxicity assified based on avai	lable information.	
<u>Comp</u>	oonents:		
	ethrin (ISO): s on fertility	Species: R	Route: Ingestion
Effect ment	s on foetal develop-	reproduction Species: R	Route: Ingestion
1-Met	hoxy-2-propanol:		
	s on fertility	Species: R Application	Route: inhalation (vapour) ECD Test Guideline 416
Effect ment	s on foetal develop-	Species: R	Route: inhalation (vapour)
II Indov	acarb (ISO):		
	s on fertility	Species: R Application	Route: Oral xicity F1: NOAEL: 1.3 mg/kg body weight
		Species: R Application General To General To	Route: Oral exicity - Parent: NOAEL: 1.3 mg/kg body weight exicity F1: NOAEL: > 6.7 mg/kg body weight bryotoxic effects and adverse effects on the off-
Effect	s on foetal develop-	: Test Type:	Development



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	- single exposure ause drowsiness or diz	Result: No Test Type Species: F Application Developm Result: No Test Type Species: F Application Developm Test Type Species: F Application Developm	ental Toxicity: NOAEL: 2 mg/kg body weight teratogenic effects Development Rabbit n Route: Oral ental Toxicity: NOAEL: 500 mg/kg body weight adverse effects Development Rat n Route: Oral ental Toxicity: NOAEL: 10 mg/kg body weight Development
Comp	bonents: hoxy-2-propanol:		
Asses		: May cause	e drowsiness or dizziness.
Cause sure.		Blood, Nervous s	ystem, Heart) through prolonged or repeated expo-
	oonents: acarb (ISO):		
Targe	t Organs ssment		vous system, Heart mage to organs through prolonged or repeated
Repe	ated dose toxicity		
Comp	oonents:		
Speci NOAE Applic		: Rat : 0.2201 mg : Inhalation : 90 Days	/I
Specie NOAE		: Rat : 175 mg/kg	



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Appli Expo	cation Route sure time	: Ingestion : 90 Days	
1-Me	thoxy-2-propanol:		
Spec NOA Appli	ies	: Rat : 919 mg/kg : Ingestion : 35 Days	
Spec NOA Appli Expo Meth	EL cation Route sure time	: Rat : 1.1 mg/l : inhalation (v : 2 yr : OECD Test	rapour) Guideline 453
		: Rabbit : 1,838 mg/kg : Skin contac : 90 Days	
	xacarb (ISO):		
Expo	EL	: Rat, male a : 1.7 mg/kg : 4.1 mg/kg : Oral : 90 d : Blood, Cent	nd female ral nervous system
Expo	EL	: Rat, male a : 50 mg/kg : 500 mg/kg : Dermal : 28 d : Blood	nd female
Expo	EL	: Rat : 4.6 mg/m3 : 23 mg/m3 : Inhalation : 4 Weeks : Blood, Lung	s
Expo	EL	: Rat, male a : 1 mg/kg : 2 mg/kg : Oral : 1 yr : Blood	nd female
Spec NOA	ies EL	: Dog : 1 mg/kg	

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LOAEL Application Route Exposure time Target Organs	:	2 mg/kg Oral 1 yr Blood
Species NOAEL LOAEL Application Route Exposure time Target Organs	:	Mouse 3 mg/kg 14 mg/kg oral (feed) 18 Months Nervous system, Heart
Aspiration toxicity Not classified based on availa		
Experience with human exp	osı	ire
Components:		
Indoxacarb (ISO): General Information		No human information is available.
SECTION 12. ECOLOGICAL INFO		
Ecotoxicity		
Components:		
Permethrin (ISO):		
	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00079 mg/l Exposure time: 96 h
Permethrin (ISO):	:	
Permethrin (ISO): Toxicity to fish Toxicity to daphnia and other	:	Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 0.0001 mg/l
Permethrin (ISO): Toxicity to fish Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic	:	Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 0.0001 mg/l Exposure time: 48 h ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.13 mg/l
Permethrin (ISO): Toxicity to fish Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic	:	Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 0.0001 mg/l Exposure time: 48 h ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.13 mg/l Exposure time: 72 h EC10 (Pseudokirchneriella subcapitata (green algae)): 0.0023 mg/l
Permethrin (ISO):Toxicity to fishToxicity to daphnia and other aquatic invertebratesToxicity to algae/aquatic plantsToxicity to fish (Chronic tox-	: : :	Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 0.0001 mg/l Exposure time: 48 h ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.13 mg/l Exposure time: 72 h EC10 (Pseudokirchneriella subcapitata (green algae)): 0.0023 mg/l Exposure time: 72 h NOEC (Danio rerio (zebra fish)): 0.00041 mg/l Exposure time: 35 d



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			Exposure time: 3	h		
II 						
	hoxy-2-propanol: ity to fish	:	LC50 (Leuciscus Exposure time: 96 Method: DIN 384			
Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): 23,300 mg/l Exposure time: 48 h			
Toxicity to algae/aquatic plants		:	Exposure time: 72	ErC50 (Skeletonema costatum (marine diatom)): 6,745 mg/ Exposure time: 72 h Method: ISO 10253		
Toxicity to microorganisms		:	IC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209			
Indox	acarb (ISO):					
	Toxicity to fish		LC50 (Oncorhync Exposure time: 96 Method: OECD T			
			LC50 (Lepomis m Exposure time: 96 Method: OECD T			
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 0.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202			
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 0. 2 h		
			NOEC (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0.4 2 h		
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia r Exposure time: 2 ⁻	nagna (Water flea)): 0.09 mg/l I d		
Persi	stence and degradabili	ity				
<u>Comp</u>	oonents:					
Perm	ethrin (ISO):					
Biode	gradability	:	Result: Not readil Method: OECD T	y biodegradable. est Guideline 301F		



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1-Methoxy-2-propanol: Biodegradability		:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	96 %	
Bioad	ccumulative potential				
Com	ponents:				
Permethrin (ISO): Bioaccumulation		:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 570		
	ion coefficient: n- ol/water	:	: log Pow: 4.67		
1-Met	thoxy-2-propanol:				
	Partition coefficient: n- octanol/water		log Pow: < 1		
Partit	Indoxacarb (ISO): Partition coefficient: n- octanol/water		log Pow: 4.65		
Mobi	lity in soil				
<u>Com</u>	ponents:				
Distril menta Othe	cacarb (ISO): bution among environ- al compartments r adverse effects	:	log Koc: 3.9		
No da	ata available				

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.	
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. 	

SECTION 14. TRANSPORT INFORMATION

International Regulations



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Class Packir Labels Enviro	mber r shipping name ng group s nmentally hazardous		UN 3092 1-METHOXY-2-P 3 III 3 no	ROPANOL SOLUTION	
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen-			UN 3092 1-Methoxy-2-propanol solution 3 III Flammable Liquids 366 355		
Class Packir Labels EmS (-Code Imber r shipping name ng group			ROPANOL SOLUTION), Indoxacarb (ISO))	
Trans	port in bulk according	g to	Annex II of MARP	OL 73/78 and the IBC Code	

Not applicable for product as supplied.

National Regulations

ADG		
UN number	:	UN 3092
Proper shipping name	:	1-METHOXY-2-PROPANOL SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	•2Y
Environmentally hazardous	:	no
-		

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



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	eeutic Goods (Poisons ard) Instrument	:		cific co	the original publication to check for onditions or threshold limits that might	
Prohibition/Licensing Requirements			nts	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.	
The components of this product are reported in the following inventories:						
AICS		:	not determined			
DSL		:	not determined			
IECSC		:	not determined			

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date Sources of key data used to	:	09.07.2024 Internal technical data, data from raw material SDSs, OECD
compile the Safety Data Sheet		eChem Portal search results and European Chemicals Agen- 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 abbreviation	ns			
ACGIH AU OEL		USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.		
ACGIH / STEL	:	8-hour, time-weighted average Short-term exposure limit Exposure standard - time weighted average Exposure standard - short term exposure limit		

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 con-

SAFETY DATA SHEET



Indoxacarb / Permethrin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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