



Indoxacarb / Permethrin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
7.0	07/09/2024	27875-00026	Date of first issue: 11/04/2014

SECTION 1. IDENTIFICATION

Product name	:	Indoxacarb / Permethrin Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Flammable liquids	dan :	ce with the Hazardous Products Regulations Category 3
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin sensitization	:	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 vapor. H302 + H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H372 Causes damage to organs (Blood, Nervous system,

according to the Hazardous Products Regulations



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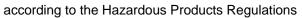
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Precautionary Statements :		and other ignitic P260 Do not br P264 Wash ski P270 Do not ea P271 Use only P272 Contamin the workplace.	ay from heat, hot surfaces, sparks, open flames on sources. No smoking. eathe mist or vapors. In thoroughly after handling. It, drink or smoke when using this product. outdoors or in a well-ventilated area. lated work clothing should not be allowed out of tective gloves, protective clothing, eye protection ttoon.	
		unwell. Rinse m P303 + P361 + all contaminate P304 + P340 + and keep comfo unwell. P314 Get medi P333 + P313 If tion.	P330 IF SWALLOWED: Call a doctor if you feel nouth. P353 IF ON SKIN (or hair): Take off immediately d clothing. Rinse skin with water. P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a doctor if you feel cal attention if you feel unwell. skin irritation or rash occurs: Get medical atten- ake off contaminated clothing and wash it before	
		Storage: P405 Store locl	ked up.	
		Disposal: P501 Dispose of contents and container to an approved disposal plant.		
Cutar er, the		no lesions and are of a	g or stinging on the face and mucosae. Howev- a transitory nature (max. 24 hours).	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Permethrin (ISO)	m- phenoxybenzyl 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclo- propanecarbox- ylate	52645-53-1	43.81





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1-Met	1-Methoxy-2-propanol Methoxyisop		107-98-2	42.3
Indox	Indoxacarb (ISO) No data ble		173584-44-	6 13.69

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical 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.
Most important symptoms and effects, both acute and delayed	:	Never give anything by mouth to an unconscious person. 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.
Protection of first-aiders Notes to physician	:	Pyrethroid poisoning should not be confused with carbamate 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). 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	:	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. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.



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	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compounds		
	Specific extinguishing meth- ods		:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.		
	Special for fire-	protective equipment fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
SEC	CTION 6.	ACCIDENTAL RELE	ASI	EMEASURES		
	tive equ	rsonal precautions, protec e equipment and emer- ncy procedures		Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
	Environ	mental 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		:	Suppress (knock of jet. 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	s should be used. absorbent material. down) gases/vapors/mists with a water spray 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.
	Use explosion-proof electrical, ventilating and lighting equip- ment.

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Advice on safe handling		 Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene ar practice, based on the results of the workplace expos assessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flan other ignition sources. No smoking. Take precautionary measures against static discharge Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize relea environment. 			
Con	ditions for safe storage	: Ke Sto Ke Ke Sto	ep in properly l pre locked up. ep tightly close ep in a cool, we pre in accordan	abeled containers. d. ell-ventilated place. ce with the particular national regulations. neat and sources of ignition.	
Mate	erials to avoid	: Do Str Se Or Fla Py Se Su flar Ex Ga	not store with ong oxidizing a lf-reactive subs ganic peroxides immable solids rophoric liquids rophoric solids lf-heating subs bstances and n mmable gases plosives ises	the following product types: igents stances and mixtures s	

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
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 369 mg/m³	CA AB OEL
		STEL	150 ppm 553 mg/m³	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	100 ppm	CA BC OEL
		TWAEV	100 ppm 369 mg/m ³	CA QC OEL



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/ersion 7.0	Revision Date: 07/09/2024		DS Number: 7875-00026	Date of last issue: 04/06/2024 Date of first issue: 11/04/2014			
				STEV	150 ppm 553 mg/m³	CA QC OEL	
				TWA	50 ppm	ACGIH	
				STEL	100 ppm	ACGIH	
Indox	acarb (ISO)		173584-44-6	TWA	50 µg/m3 (OEB 3)	Internal	
			Further informa	ation: DSEN	· · · · · ·		
				Wipe limit	100 µg/100 cm2	Internal	
Engir	neering measures	:	 Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equipment. 				
Perso	onal protective equipn	nent					
Fil	iratory protection ter type	:	exposure assered recommended	essment demon d guidelines, use	tilation is not available strates exposures ou e respiratory protectio ganic vapor type	tside the	
Hand	protection						
Ma	aterial	:	Chemical-resi	stant gloves			
Re	emarks	:	: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of				
Eye p	protection	:	workday. Wear the follo Safety glasses		protective equipment:		
Skin a	and body protection	:	Salety glasses Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective				
Hygie	ene measures	:	If exposure to eye flushing s working place When using d Contaminated workplace.	ystems and safe o not eat, drink	ly during typical use, ety showers close to t or smoke. hould not be allowed	he	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Ap	pearance	:	liquid	
Co	lor	:	Clear white to ye	llow.
Od	or	:	ether-like	
Od	or Threshold	:	No data available	9
рH		:	No data available	9
Me	Iting point/freezing point	:	No data available	9
Init rar	ial boiling point and boiling ge	:	No data available	9
Fla	sh point	:	33.5 °C	
Eva	aporation rate	:	No data available	9
Fla	mmability (solid, gas)	:	Not applicable	
Fla	mmability (liquids)	:	No data available	9
	per explosion limit / Upper nmability limit	:	No data available	9
	wer explosion limit / Lower mmability limit	:	No data available	9
Va	por pressure	:	No data available	9
Re	lative vapor density	:	No data available	9
Re	lative density	:	1.096	
De	nsity	:	No data available	9
	lubility(ies) Water solubility	:	No data available	9
	rtition coefficient: n- anol/water	:	Not applicable	
	toignition temperature	:	No data available	9
De	composition temperature	:	No data available	9
Vis	cosity Viscosity, kinematic	:	No data available	
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance of	r mixture is not classified as oxidizing.

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Molec	ular weight	: No data availab	le	
Particle characteristics 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 vapor. Vapors 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.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 572.63 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Components:		
Permethrin (ISO):		
Acute oral toxicity	:	LD50 (Rat): 480 - 554 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2.3 mg/l

Exposure time: 4 h
Test atmosphere: dust/mist

1-Methoxy-2-propanol:

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Ac	ute oral toxicity	:	LD50 (Rat): 4,016	S mg/kg
Ac	ute inhalation toxicity	:	LC50 (Mouse): < Exposure time: 6 Test atmosphere:	h
Ac	ute dermal toxicity	:	LD50 (Rat): > 2,0 Assessment: The toxicity	00 mg/kg substance or mixture has no acute dermal
Inc	loxacarb (ISO):			
	ute oral toxicity	:	LD50 (Rat, female Symptoms: Loss	e): 179 mg/kg of reflexes, Breathing difficulties, Tremors
			LD50 (Rat, male)	: 843 mg/kg
Ac	ute inhalation toxicity	:	LC50 (Rat, female Exposure time: 4 Test atmosphere:	h
Ac	ute dermal toxicity	:	LD50 (Rat, male	and female): > 5,000 mg/kg
Co Pe Sp	t classified based on avail mponents: rmethrin (ISO): ecies sult	lable :	information. Rabbit No skin irritation	
		•		
	Methoxy-2-propanol: ecies sult	:	Rabbit No skin irritation	
Inc Re	loxacarb (ISO): esult	:	No skin irritation	
	rious eye damage/eye ir t classified based on avail			
<u>Co</u>	mponents:			
	rmethrin (ISO):		5.11.1	
	ecies sult	:	Rabbit No eye irritation	
1-1	Methoxy-2-propanol:			
Sp	ecies sult	:	Rabbit No eye irritation	
			0 / 01	

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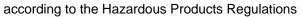


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Indox Resul	ta carb (ISO) : It	: No e	eye irritatior	ı	
Resp	iratory or skin sensi	tization			
-	sensitization cause an allergic skin	reaction.			
Not cl	iratory sensitization lassified based on ava	ailable inforr	nation.		
	oonents:				
Test	es of exposure es	: Skin	hler Test n contact nea pig itive		
Asses	ssment	: Prot	Probability or evidence of skin sensitization in humans		
1-Met	hoxy-2-propanol:				
Test T Route Speci Resul	es of exposure es	: Skin : Guir	 Maximization Test Skin contact Guinea pig negative 		
Indox	acarb (ISO):				
Test∃ Speci Resul	es		timization T nea pig itive	est	
	cell mutagenicity lassified based on ava	ailable inforr	nation.		
<u>Comp</u>	oonents:				
	ethrin (ISO): toxicity in vitro		t Type: Bac ult: negativ	terial reverse mutation assay (AMES) e	
			t Type: In v ult: negativ	itro mammalian cell gene mutation test e	
			t Type: Chr ult: negativ	omosome aberration test in vitro e	
		thes		A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e	

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		Test Type: Chi Result: positive	romosome aberration test in vitro
Geno	otoxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Result: negativ	e
		Test Type: Roo Species: Mous Result: negativ	
		cytogenetic as Species: Rat	ute: Intraperitoneal injection
			ute: Ingestion
	n cell mutagenicity - ssment	: Weight of evide cell mutagen.	ence does not support classification as a germ
1-Me	thoxy-2-propanol:		
Geno	otoxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) re
		Test Type: Chi Result: negativ	romosome aberration test in vitro re
		Test Type: In v Result: negativ	ritro mammalian cell gene mutation test re
		Test Type: In v malian cells Result: equivo	itro sister chromatid exchange assay in mam- cal
		thesis in mamr	A damage and repair, unscheduled DNA syn- nalian cells (in vitro) D Test Guideline 482 re
Geno	otoxicity in vivo	: Test Type: Ma	mmalian erythrocyte micronucleus test (in vivo





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			cytogenetic assa Species: Mouse Application Route Result: negative	y) e: Intraperitoneal injection
Indo	oxacarb (ISO):			
	otoxicity in vitro		Test Type: Bacte	rial reverse mutation assay (AMES)
Gen		•	Result: negative	
			Test Type: Chror Test system: mar Result: negative	nosomal aberration nmalian cells
				o mammalian cell gene mutation test nese hamster ovary cells
Gen	otoxicity in vivo	:	Test Type: Micro Species: Mouse Cell type: Bone n Result: negative	
Not o <u>Com</u>	cinogenicity classified based on avail <u>aponents:</u> nethrin (ISO):	lable	information.	
Spe			Rat	
Res		:	negative	
Spec Res		:	Mouse negative	
1-Me	ethoxy-2-propanol:			
Spe		:	Rat	
Appl	lication Route	:	inhalation (vapor) 2 Years	
Meth		÷	OECD Test Guid	eline 453
Res		:	negative	
Indo	oxacarb (ISO):			
Spe		:	Rat, male and fer	nale
Appl	ication Route	:	oral (feed)	
	osure time juency of Treatment	:	2 Years daily	
Res		:	negative	
Spe	cies	:	Mouse, male and	female
Appl	ication Route	:	oral (feed)	
Expo	osure time	:	18 Months	

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Frequ Resul	ency of Treatment	:	daily negative	
-	oductive toxicity lassified based on availa	able	information.	
Comp	oonents:			
Perm	ethrin (ISO):			
Effect	s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effect	s on fetal development	:		ined repeated dose toxicity study with the elopmental toxicity screening test : Ingestion
1-Met	hoxy-2-propanol:			
Effect	s on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) est Guideline 416
Effect	s on fetal development	:	Species: Rat	ro-fetal development : inhalation (vapor)
Indox	acarb (ISO):			
	is on fertility	:	Test Type: Two-g Species: Rat Application Route General Toxicity I Result: negative	
			General Toxicity I	: Oral Parent: NOAEL: 1.3 mg/kg body weight F1: NOAEL: > 6.7 mg/kg body weight xic effects and adverse effects on the
Effect	s on fetal development	:	Test Type: Develo Species: Rat Developmental To Result: No teratog	oxicity: NOAEL: 2 mg/kg body weight

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		Test Type: De Species: Rabl Application Ro Developmenta Result: No ad	bit oute: Oral al Toxicity: NOAEL: 500 mg/kg body weight
		Test Type: De Species: Rat Application Ro Developmenta	
		Test Type: De Species: Rat Application Ro Developmenta	
II STOT	F-single exposure		
-	cause drowsiness or o	dizziness.	
	ponents:		
1-Me Asse	thoxy-2-propanol:	· May cause dr	owsiness or dizziness.
	F-repeated exposure es damage to organs		em, Heart) through prolonged or repeated expo-
Caus sure.	· · ·		em, Heart) through prolonged or repeated expo-
Caus sure. <u>Com</u>	es damage to organs		em, Heart) through prolonged or repeated expo-
Caus sure. <u>Com</u> Indox	es damage to organs	(Blood, Nervous syster) : Blood, Nervou	em, Heart) through prolonged or repeated expo- us system, Heart lige to organs through prolonged or repeated
Caus sure. Com Indo Targe Asses	es damage to organs ponents: kacarb (ISO): et Organs	(Blood, Nervous syster : Blood, Nervou : Causes dama	us system, Heart
Caus sure. Com Indox Targe Asses Repe	es damage to organs ponents: (acarb (ISO): et Organs ssment ated dose toxicity	(Blood, Nervous syster : Blood, Nervou : Causes dama	us system, Heart
Caus sure. Com Indox Targe Asses Repe	es damage to organs ponents: (acarb (ISO): et Organs ssment ated dose toxicity ponents:	(Blood, Nervous syster : Blood, Nervou : Causes dama	us system, Heart
Caus sure. Com Indox Targe Asses Repe <u>Com</u> Speci NOAl Applie	es damage to organs ponents: (acarb (ISO): et Organs ssment ated dose toxicity ponents: ethrin (ISO):	(Blood, Nervous syster : Blood, Nervou : Causes dama	us system, Heart
Caus sure. Com Indox Targe Asses Repe Com Perm Spec NOAI Applie Spec NOAI	es damage to organs ponents: (acarb (ISO): et Organs ssment ated dose toxicity ponents: ponents: ethrin (ISO): ies EL cation Route sure time ies	 (Blood, Nervous system) : Blood, Nervou : Causes dama exposure. : Rat : 0.2201 mg/l : Inhalation 	us system, Heart
Caus sure. Com Indox Targe Asses Repe Com Perm Speci NOAI Applie Expos	es damage to organs ponents: (acarb (ISO): et Organs ssment ated dose toxicity ponents: tethrin (ISO): ies EL cation Route sure time ies EL cation Route sure time thoxy-2-propanol:	 (Blood, Nervous system) Blood, Nervou Causes dama exposure. Rat 0.2201 mg/l Inhalation 90 Days Rat 175 mg/kg Ingestion 	us system, Heart

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	EL cation Route sure time	: 919 mg/kg : Ingestion : 35 Days		
	EL cation Route sure time	: Rat : 1.1 mg/l : inhalation (vap : 2 y : OECD Test Gu		
		: Rabbit : 1,838 mg/kg : Skin contact : 90 Days		
Speci NOAE LOAE Applic Expos	EL	: Rat, male and t : 1.7 mg/kg : 4.1 mg/kg : Oral : 90 d : Blood, Central	emale nervous system	
Expos	EL	: Rat, male and f : 50 mg/kg : 500 mg/kg : Dermal : 28 d : Blood	emale	
Expos	EL	: Rat : 4.6 mg/m3 : 23 mg/m3 : Inhalation : 4 Weeks : Blood, Lungs		
Expos	EL	: Rat, male and t : 1 mg/kg : 2 mg/kg : Oral : 1 y : Blood	emale	
Expos	EL	: Dog : 1 mg/kg : 2 mg/kg : Oral : 1 y : Blood		
Speci NOAE		: Mouse : 3 mg/kg		

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A	OAEL pplication Route xposure time arget Organs	:	14 mg/kg oral (feed) 18 Months Nervous system, l	Heart
	spiration toxicity lot classified based on availa	ble	information.	
E	xperience with human exp	οςι	ire	
<u>C</u>	omponents:			
	ndoxacarb (ISO): General Information	:	No human informa	ation is available.
SECT	ION 12. ECOLOGICAL INFO	DRI	IATION	
E	cotoxicity			
<u>c</u>	omponents:			
Р	ermethrin (ISO):			
T	oxicity to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.00079 mg/l bh
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0001 mg/l sh
	oxicity to algae/aquatic lants	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 1.13 ? h
			EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0.0023 ? h
	oxicity to fish (Chronic tox- ity)	:	NOEC (Danio reri Exposure time: 35 Method: OECD Te	
a	oxicity to daphnia and other quatic invertebrates (Chron- : toxicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Т	oxicity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3	
1	-Methoxy-2-propanol:			
	oxicity to fish	:	LC50 (Leuciscus i Exposure time: 96 Method: DIN 3841	

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aquat	ic invertebrates		Exposure time: 48	3 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72 Method: ISO 1025	
Toxici	ty to microorganisms	:	IC50: > 1,000 mg, Exposure time: 3 Method: OECD Te	h
Indox	acarb (ISO):			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
			LC50 (Lepomis m Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 0.6 2 h
			NOEC (Pseudokin mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0.46 2 h
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.09 mg/l I d
Persi	stence and degradabil	ity		
Comp	oonents:			
	ethrin (ISO): gradability	:	Result: Not readil Method: OECD To	y biodegradable. est Guideline 301F
1-Met	hoxy-2-propanol:			
	gradability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD To	96 %





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Bioac	cumulative potential			
Comp	oonents:			
Perm	ethrin (ISO):			
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 570
	on coefficient: n- ol/water	:	log Pow: 4.67	
1-Met	hoxy-2-propanol:			
	on coefficient: n- ol/water	:	log Pow: < 1	
Indox	acarb (ISO):			
	on coefficient: n- ol/water	:	log Pow: 4.65	
Mobil	ity in soil			
Comp	oonents:			
Indox	acarb (ISO):			
	oution among environ- al compartments	:	log Koc: 3.9	
	adverse effects Ita available			

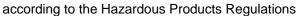
SECTION 13. DISPOSAL CONSIDERATIONS

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 handling 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/o death. If not otherwise specified: Dispose of as unused product. 	or

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3092
Proper shipping name	:	1-METHOXY-2-PROPANOL SOLUTION
Class	:	3
Packing group	:	111
Labels	:	3
Environmentally hazardous	:	no





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Class Packi Label Packi aircra	o No. er shipping name ng group s ng instruction (cargo		UN 3092 1-Methoxy-2-prop 3 III Flammable Liquid 366 355	
ger ai IMDG UN ni Prope Class Packi Label EmS	rcraft) G-Code umber er shipping name ng group s	: : : : : : : : : : : : : : : : : : : :	UN 3092 1-METHOXY-2-P	ROPANOL SOLUTION), Indoxacarb (ISO))

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

т	DG	

UN number Proper shipping name Class Packing group Labels ERG Code Marine pollutant	: UN 3092 : 1-METHOXY-2-PROPANO : 3 : III : 3 : 129 : ves/Permethrip (ISO), Indo	
Marine pollutant	: yes(Permethrin (ISO), Indox	kacarb (ISO))

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

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

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

according to the Hazardous Products Regulations



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SECTION 16. OTHER INFORMATION

Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)			
CA BC OEL	:	Canada. British Columbia OEL			
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants			
ACGIH / TWA	:	8-hour, time-weighted average			
ACGIH / STEL	:	Short-term exposure limit			
CA AB OEL / TWA	:	8-hour Occupational exposure limit			
CA AB OEL / STEL	:	15-minute occupational exposure limit			
CA BC OEL / TWA	:	8-hour time weighted average			
CA BC OEL / STEL	:	short-term exposure limit			
CA QC OEL / TWAEV	:	Time-weighted average exposure value			
CA QC OEL / STEV	:	Short-term exposure value			

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

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-



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

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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