

Version 6.0	Revision Date: 09.07.2024		5 Number: 66-00025	Date of last issue: 30.09.2023 Date of first issue: 04.11.2014
SECTION	1. IDENTIFICATION			
Produ	uct name	:	Indoxacarb / Per	methrin Formulation
Manu	ifacturer or supplier's	s detai	ls	
Comp	bany	:	MSD	
Addre	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP
Telep	hone	:	908-740-4000	
Emer	gency telephone	:	1-908-423-6000	
E-ma	il address	:	EHSDATASTEW	/ARD@msd.com
Reco	mmended use of the	chemi	cal and restriction	ons on use
	mmended use ictions on use	:	Veterinary produ Not applicable	ict

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids	:	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)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements



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Hazar	rd pictograms		
Signa	l Word	: Danger	
Hazar	rd Statements	H302 + H332 H317 May ca H336 May ca H372 Causes Heart) throug	able liquid and vapor. Harmful if swallowed or if inhaled. use an allergic skin reaction. use drowsiness or dizziness. damage to organs (Blood, Nervous system, h prolonged or repeated exposure. xic to aquatic life with long lasting effects.
Preca	utionary Statements	Prevention:	
		P210 Keep av and other igni P260 Do not I P264 Wash s P270 Do not o P271 Use onI P272 Contam the workplace P273 Avoid re	elease to the environment. rotective gloves/ protective clothing/ eye protec
		Response:	
		CENTER/ dod P303 + P361 Iy all contamin P304 + P340 and keep con doctor if you f P314 Get me P333 + P313 vice/ attention	dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad- n. Take off contaminated clothing and wash it bef
		Storage:	
		P405 Store lo	ocked up.
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapors 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)
Permethrin (ISO)	52645-53-1	>= 30 -< 50
1-Methoxy-2-propanol	107-98-2	>= 30 -< 50
Indoxacarb (ISO)	173584-44-6	>= 10 -< 20

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
If inhaled	:	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact	:	Get medical attention if symptoms occur. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.
In case of eye contact	:	Thoroughly clean shoes before reuse. 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. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
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

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.



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			Vapors may form	ble over considerable distance. explosive mixtures with air. bustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Chlorine compour	nds
Spec ods	cific extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to c
	cial protective equipment re-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.
SECTION	I 6. ACCIDENTAL RELE	ASI	EMEASURES	
tive e	onal precautions, protec- equipment and emer- ey procedures	:	Follow safe handl	es of ignition. tective equipment. ing advice (see section 7) and personal tent recommendations (see section 8).
Envi	ronmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	nods and materials for ainment and cleaning up	:	Soak up with inert 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. t absorbent material. down) gases/vapors/mists with a water spra rovide diking or other appropriate ep material from spreading. If diked materia store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. IS 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



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Advi	ce on safe handling	ment. Do not get or Do not breath Do not swallo Avoid contac Wash skin the Handle in acc practice, base assessment Non-sparking Keep contain Keep away fr other ignition Take precaut Do not eat, d	
Con	ditions for safe storage	: Keep in propo Store locked Keep tightly o Keep in a coo Store in acco	losed. bl, well-ventilated place. rdance with the particular national regulations.
Mate	erials to avoid	: Do not store Strong oxidiz Self-reactive Organic pero Flammable s Pyrophoric lic Pyrophoric so Self-heating s Substances a flammable ga Explosives Gases	substances and mixtures xides olids quids olids substances and mixtures and mixtures which in contact with water emit

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	CMP	100 ppm	AR OEL
		CMP - CPT	150 ppm	AR OEL
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
Indoxacarb (ISO)	173584-44-6	TWA	50 µg/m3 (OEB 3)	Internal
	Further inform	ation: DSEN		



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			Wip	e limit	100 µg/100 cm2	Internal
Engi	neering measures	lf suffic ventila	cient ventilati tion. plosion-proc	on is unav	e concentrations. ailable, use with loca I, ventilating and ligh	
Pers	onal protective equip	nent				
	iratory protection	exposi recomi	ire assessm mended guic	ent demon Ielines, use	tilation is not availab strates exposures or e respiratory protecti	utside the
	Iter type I protection	: Combi	ned particula	ites and or	ganic vapor type	
Μ	aterial	: Chemi	cal-resistant	gloves		
R	emarks	on the time is For spo resista gloves produc	concentratic not determine ecial applicance to chem with the glow t is flammab	n specific ned for the tions, we re icals of the ve manufa le, which r	ds against chemicals to place of work. Bre product. Change glo ecommend clarifying a aforementioned pro cturer. Take note tha nay impact the selec re breaks and at the	akthrough oves often! the tective it the tion of hand
Eye p	protection	: Wear t		personal p	protective equipment	:
Skin	and body protection	: Select resista potenti Wear t If asse atmosp protect Skin co	appropriate nce data and al. he following ssment dem pheres or flas tive clothing.	d an asses personal p onstrates t sh fires, us pe avoided	clothing based on ch sment of the local ex protective equipment that there is a risk of the flame retardant an by using impervious	posure explosive tistatic
Hygie	ene measures	: If expo eye flu workin When Contar workpl	sure to chen shing systen g place. using do not ninated work ace.	nical is like ns and safe eat, drink c clothing s	ly during typical use ety showers close to	the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: Clear white to yellow.
Odor	: ether-like
Odor Threshold	: No data available

SAFETY DATA SHEET



Indoxacarb / Permethrin Formulation

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pН		:	No data available	
Me	ting point/freezing point	:	No data available	
Initi ran	al boiling point and boiling ge	:	No data available	
Flas	sh point	:	33,5 °C	
Eva	aporation rate	:	No data available	
Fla	mmability (solid, gas)	:	Not applicable	
Fla	mmability (liquids)	:	No data available	
	per explosion limit / Upper nmability limit	:	No data available	
	ver explosion limit / Lower nmability limit	:	No data available	
Vap	oor pressure	:	No data available	•
Rel	ative vapor density	:	No data available	•
Rel	ative density	:	1,096	
Der	nsity	:	No data available	•
	ubility(ies) Water solubility	:	No data available	
	tition coefficient: n- anol/water	:	Not applicable	
	oignition temperature	:	No data available	
Dec	composition temperature	:	No data available	
	cosity Viscosity, kinematic	:	No data available	
Exp	plosive properties	:	Not explosive	
Oxi	dizing properties	:	The substance of	mixture is not classified as oxidizing.
Mol	ecular weight	:	No data available	
	ticle characteristics ticle size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY



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Chem	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. 					
Incom	tions to avoid patible materials dous decomposition cts	: :	Heat, flames and Oxidizing agents No hazardous de					
ECTION '	11. TOXICOLOGICAL I	NFC	ORMATION					
Inform expos	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact					
	t oxicity ul if swallowed or if inha	ıled.						
<u>Produ</u>	<u>ict:</u>							
Acute	oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 572,63 mg/kg on method				
Acute	Acute inhalation toxicity		Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h vapor				
Comp	onents:							
Perme	ethrin (ISO):							
Acute	oral toxicity	:	LD50 (Rat): 480 -	554 mg/kg				
Acute	inhalation toxicity	:	LC50 (Rat): 2,3 m Exposure time: 4 Test atmosphere:	ĥ				
Acute	dermal toxicity	:	LD50 (Rabbit): >	2.000 mg/kg				
1-Met	hoxy-2-propanol:							
	oral toxicity	:	LD50 (Rat): 4.016	6 mg/kg				
Acute	inhalation toxicity	:	LC50 (Mouse): < Exposure time: 6 Test atmosphere:	h				
Acute	dermal toxicity	:	LD50 (Rat): > 2.0 Assessment: The toxicity	00 mg/kg substance or mixture has no acute dermal				
II Indov	acarb (ISO):							
maox								



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II		Symptoms: I	Loss of reflexes, Breathing difficulties, Tremors
		LD50 (Rat, n	nale): 843 mg/kg
Acute	inhalation toxicity	Exposure tin	emale): 4,2 mg/l ne: 4 h here: dust/mist
Acute	dermal toxicity	: LD50 (Rat, n	nale and female): > 5.000 mg/kg
	corrosion/irritation assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
Perm	ethrin (ISO):		
Speci Resul		: Rabbit : No skin irrita	tion
	hoxy-2-propanol:		
Speci Resul		: Rabbit : No skin irrita	tion
	acarb (ISO):		
Resul	t	: No skin irrita	tion
	us eye damage/eye i assified based on ava		
<u>Com</u>	oonents:		
Perm	ethrin (ISO):		
Speci Resul	es	: Rabbit	
Resul	t	: No eye irritat	lion
1-Met	hoxy-2-propanol:		
Speci	es	: Rabbit	
Resul	t	: No eye irritat	lion
Indox	acarb (ISO):		
Resul	t	: No eye irritat	lion
Resp	iratory or skin sensit	ization	
Skin	sensitization ause an allergic skin i		
-	iratory sensitization		
Not cl	assified based on ava	ilable information.	



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Com	oonents:				
Perm	ethrin (ISO):				
Test		: Buehler Test			
Route	es of exposure	: Skin contact			
Speci	es	: Guinea pig			
Resu	t	: positive			
Asses	ssment	: Probability or e	evidence of skin sensitization in humans		
1-Met	hoxy-2-propanol:				
Test	Гуре	: Maximization	Fest		
Route	es of exposure	: Skin contact			
Speci		: Guinea pig			
Resu	t	: negative			
Indox	acarb (ISO):				
Test	Гуре	: Maximization	Fest		
Speci		: Guinea pig			
Resu	t	: positive			
Not cl	a cell mutagenicity lassified based on av ponents:	ailable information.			
Not cl <u>Comp</u> Perm	assified based on av ponents: ethrin (ISO):				
Not cl <u>Comp</u> Perm	assified based on av		cterial reverse mutation assay (AMES) /e		
Not cl <u>Comp</u> Perm	assified based on av ponents: ethrin (ISO):	: Test Type: Ba Result: negativ	ve vitro mammalian cell gene mutation test		
Not cl <u>Comp</u> Perm	assified based on av ponents: ethrin (ISO):	: Test Type: Bac Result: negativ Test Type: In v Result: negativ	ve vitro mammalian cell gene mutation test ve romosome aberration test in vitro		
Not cl <u>Comp</u> Perm	assified based on av ponents: ethrin (ISO):	: Test Type: Bac Result: negativ Test Type: In v Result: negativ Test Type: Ch Result: negativ Test Type: DN	ve vitro mammalian cell gene mutation test ve romosome aberration test in vitro ve A damage and repair, unscheduled DNA syn- malian cells (in vitro)		
Not cl <u>Comp</u> Perm	assified based on av ponents: ethrin (ISO):	: Test Type: Bac Result: negativ Test Type: In v Result: negativ Test Type: Ch Result: negativ Test Type: DN thesis in mam Result: negativ	ve vitro mammalian cell gene mutation test ve romosome aberration test in vitro ve A damage and repair, unscheduled DNA syn- malian cells (in vitro) ve		
Not cl <u>Com</u> Perm Geno	assified based on av ponents: ethrin (ISO):	: Test Type: Bac Result: negativ Test Type: In v Result: negativ Test Type: Ch Result: negativ Test Type: DN thesis in mam Result: negativ Test Type: Ch Result: positive	ve vitro mammalian cell gene mutation test ve romosome aberration test in vitro ve A damage and repair, unscheduled DNA syn- malian cells (in vitro) ve romosome aberration test in vitro e mmalian erythrocyte micronucleus test (in vivo say)		



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		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	ptoxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) e
		Test Type: Chr Result: negativ	romosome aberration test in vitro re
		Test Type: In v Result: negativ	itro mammalian cell gene mutation test e
		Test Type: In v malian cells Result: equivor	itro sister chromatid exchange assay in mam- cal
		thesis in mamr	A damage and repair, unscheduled DNA syn- nalian cells (in vitro)) Test Guideline 482 re
Geno	otoxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
II Indo	xacarb (ISO):		
	ptoxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) e
			romosomal aberration nammalian cells re
			itro mammalian cell gene mutation test chinese hamster ovary cells
		11 / 20)



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П	Resu	It: negative
Genotoxicity in vivo	Speci Cell t	Type: Micronucleus test ies: Mouse ype: Bone marrow lt: negative
Carcinogenicity Not classified base	d on available inform	ation.
Components:		
Permethrin (ISO):		
Species Result	: Rat : negat	tive
Species Result	: Mous : negat	
1-Methoxy-2-prop	anol:	
Species Application Route Exposure time Method Result	: 2 Yea	D Test Guideline 453
Indoxacarb (ISO):		
Species Application Route Exposure time Frequency of Treat Result	: oral (: 2 Yea	ars
Species Application Route Exposure time Frequency of Treat Result	: oral (1 : 18 Mo	onths
Reproductive toxi	city d on available inform	ation.
Components:		
Permethrin (ISO):		
Effects on fertility	Speci Appli	Type: Two-generation reproduction toxicity study ies: Rat cation Route: Ingestion It: negative
Effects on fetal dev	repro	Type: Combined repeated dose toxicity study with the duction/developmental toxicity screening test ies: Rat
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			Application Rou Result: negativ	
1-Met	hoxy-2-propanol:			
Effect	s on fertility	:	Species: Rat Application Rou	e-generation reproduction toxicity study ute: inhalation (vapor) Test Guideline 416 e
Effect	s on fetal development	:	Species: Rat	oryo-fetal development ute: inhalation (vapor) e
Indox	acarb (ISO):			
Effect	s on fertility	:	Species: Rat Application Rou	y F1: NOAEL: 1,3 mg/kg body weight
			Species: Rat Application Rou General Toxicit General Toxicit	y Parent: NOAEL: 1,3 mg/kg body weight y F1: NOAEL: > 6,7 mg/kg body weight toxic effects and adverse effects on the of
Effect	s on fetal development	:		elopment Toxicity: NOAEL: 2 mg/kg body weight togenic effects.
			Test Type: Dev Species: Rabbi Application Rou Developmental Result: No adve	t ite: Oral Toxicity: NOAEL: 500 mg/kg body weight
			Test Type: Dev Species: Rat Application Rou Developmental	
			Test Type: Dev Species: Rat Application Rou Developmental	

STOT-single exposure

May cause drowsiness or dizziness.



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<u>Comp</u>	oonents:			
1-Met Asses	: hoxy-2-propanol: ssment	:	May cause dr	owsiness or dizziness.
		Blood	, Nervous syst	em, Heart) through prolonged or repeated
Com	oonents:			
Indox	acarb (ISO):			
Targe	et Organs ssment	:		us system, Heart age to organs through prolonged or repeated
Repe	ated dose toxicity			
Comp	oonents:			
Perm	ethrin (ISO):			
			Rat 0,2201 mg/l Inhalation 90 Days	
		: : :	Rat 175 mg/kg Ingestion 90 Days	
1-Met	hoxy-2-propanol:			
Speci NOAE Applic	es	:	Rat 919 mg/kg Ingestion 35 Days	
Speci NOAE Applic Expos Metho	EL cation Route sure time	:	Rat 1,1 mg/l inhalation (va 2 y OECD Test G	
		:	Rabbit 1.838 mg/kg Skin contact 90 Days	
Indox	acarb (ISO):			
Speci NOAE LOAE	es EL	:	Rat, male and 1,7 mg/kg 4,1 mg/kg Oral	I female
			14/2	20



Exposure time :: 90 d Target Organs :: Blood, Central nervous system Species :: :: S0 mg/kg LOAEL :: :: A: Exposure time :: :: A: Species :: Rat Mg/m3 LOAEL :: : : NOAEL :: : : LOAEL :: : : Species :: : : Target Organs :: : : Species :: : : Target Organs :: : ! NOAEL :: : 1 mg/kg LOAEL :: : 1 mg/kg LOAEL :: : 1 mg/kg LOAEL :: : 1 mg/kg LOAEL <td:< td=""> : :</td:<>	Version 6.0	Revision Date: 09.07.2024	SDS Number: 27866-00025	Date of last issue: 30.09.2023 Date of first issue: 04.11.2014
Note: Fat, male and female NOAEL is 500 mg/kg Application Route is 200 mg/kg Exposure time is 28 d Terman is 28 d Terman is 28 d Species is Rat NOAEL is 300 mg/kg Application Route is 28 d Application Route is 23 mg/m3 Application Route is 1/halation Exposure time is 23 mg/m3 Application Route is 1/halation Exposure time is 2 mg/m3 Application Route is 1/mg/kg LOAEL is 2 mg/kg Application Route is 0/ral Species is 0/ral Exposure time is 1/y Target Organs Blood Species is 0/ral Exposure time is 1/y Target Organs Blood Species Mouse NOAEL is 3 mg/kg Application Route is 0/ral (feed) Exposure time is 18 Months Target Organs is Nervous system, Heart	Expo	sure time	: 90 d	
NOAEL ::::::::::::::::::::::::::::::::::::	Targe	et Organs	: Blood, Centra	nervous system
LOAEL ::::::::::::::::::::::::::::::::::::				female
Application Route :: Dermal Exposure time :: 28 d Target Organs :: Blood Species :: Rat NOAEL :: 23 mg/m3 Application Route :: Inhalation Exposure time :: 4 Weeks Target Organs :: Blood Species :: Rat, male and female NOAEL :: 2 mg/kg Application Route :: Oral Exposure time :: 1 mg/kg LOAEL :: 2 mg/kg Application Route :: Oral Exposure time :: 1 y Target Organs :: Blood Species :: Dog NOAEL :: 2 mg/kg Application Route :: Oral Exposure time :: 1 y Target Organs :: Blood Species :: Mouse NOAEL :: : NOAEL :: :				
Exposure time :: 28 d Target Organs :: Blood NOAEL :: 23 mg/m3 Application Route :: Inhalation Exposure time ::: 24 Weeks Target Organs ::: Blood, Lungs Species ::: Rat, male and female NOAEL ::: 2 mg/kg Application Route ::: Oral Exposure time ::: 2 mg/kg Application Route ::: Oral Exposure time ::: 1 mg/kg LOAEL ::: 2 mg/kg Application Route ::: Oral Exposure time ::: 1 mg/kg LOAEL ::: 2 mg/kg Application Route ::: Oral Exposure time ::: 1 mg/kg LOAEL ::: 2 mg/kg Application Route ::: Oral Exposure time ::: 1 y Target Organs ::: Blood Species ::: Mouse NOAEL ::: 3 mg/kg LOAEL ::: 14 mg/kg LOAEL ::: 3 mg/kg Application Route ::: oral (feed) Exposure time ::: 8 Mouths<				
Target Organs Hood Species Rat NOAEL 4.6 mg/m3 NOAEL 23 mg/m3 Application Route 1 hhalation Exposure time 4 Weeks Target Organs Blood, Lungs Species Rat, male and female NOAEL 2 mg/kg Application Route 2 oral Exposure time 1 y Target Organs Blood Species Mouse NOAEL 3 mg/kg Application Route oral (feed) Exposure time 18 Months Target Organs Nervous system, Heart Application Route 18 Months Target Organs Nervous system, Heart				
NOAEL :: 23 mg/m3 LOAEL :: 23 mg/m3 Application Route :: Inhalation Exposure time :: 4 Weeks Target Organs :: Blood, Lungs Species :: Rat, male and female NOAEL :: 1 mg/kg LOAEL :: 2 mg/kg Application Route : Oral Exposure time :: 1 y Target Organs :: Blood Species : Dog NOAEL :: 1 mg/kg LOAEL :: 2 mg/kg Application Route :: Oral Exposure time :: 1 mg/kg LOAEL :: 2 mg/kg Application Route :: Oral Exposure time :: 1 y Target Organs :: Blood Species : Mouse NOAEL :: 3 mg/kg LOAEL :: 14 mg/kg Application Route : <t< td=""><td></td><td></td><td></td><td></td></t<>				
NOAEL :: 23 mg/m3 LOAEL :: 23 mg/m3 Application Route :: Inhalation Exposure time :: 4 Weeks Target Organs :: Blood, Lungs Species :: Rat, male and female NOAEL :: 1 mg/kg LOAEL :: 2 mg/kg Application Route : Oral Exposure time :: 1 y Target Organs :: Blood Species : Dog NOAEL :: 1 mg/kg LOAEL :: 2 mg/kg Application Route :: Oral Exposure time :: 1 mg/kg LOAEL :: 2 mg/kg Application Route :: Oral Exposure time :: 1 y Target Organs :: Blood Species : Mouse NOAEL :: 3 mg/kg LOAEL :: 14 mg/kg Application Route : <t< td=""><td>Spec</td><td>ies</td><td>: Rat</td><td></td></t<>	Spec	ies	: Rat	
Application Route :: Inhalation Exposure time :: 4 Weeks Target Organs :: Blood, Lungs Species :: Rat, male and female NOAEL :: 1 mg/kg LOAEL :: 2 mg/kg Application Route :: 0 ral Exposure time :: 1 mg/kg LOAEL :: 1 mg/kg LOAEL :: 1 mg/kg Application Route :: 0 ral Exposure time :: 1 mg/kg LOAEL :: 2 mg/kg Application Route :: 0 ral Exposure time :: 1 y Target Organs :: Blood Species :: Mouse NOAEL :: 2 mg/kg LOAEL :: 3 mg/kg LOAEL :: 3 mg/kg LOAEL :: 3 mg/kg LOAEL :: 3 mg/kg LOAEL :: 14 mg/kg Application Route :			: 4.6 mg/m3	
Exposure time : 4 Weeks Target Organs : Blood, Lungs Species : Rat, male and female NOAEL : 1 mg/kg LOAEL : 2 mg/kg Application Route : Oral Exposure time : 1 y Target Organs : Blood Species : Dog NOAEL : 2 mg/kg Application Route : Oral Exposure time : 1 y Target Organs : Blood Species : Mouse NOAEL : 3 mg/kg LOAEL : 3 mg/kg LOAEL : 14 mg/kg Application Route : Oral Exposure time : 1 y Target Organs : Blood Species : Mouse NOAEL : 3 mg/kg LOAEL : 3 mg/kg LOAEL : 14 mg/kg Application Route : Oral (feed) Exposure time : 18 Months Target Organs : Nervous system, Heart Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Indoxacarb (ISO): Ceneral Information : No human information is available. SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity				
Target Organs : Blood, Lungs Species : Rat, male and female NOAEL : 1 mg/kg LOAEL : 2 mg/kg Application Route : Oral Exposure time : 1 mg/kg LOAEL : 1 mg/kg LOAEL : 1 mg/kg LOAEL : 2 mg/kg NOAEL : 1 mg/kg LOAEL : 2 mg/kg Application Route : Oral Exposure time : 1 y Target Organs : Blood Species : 2 mg/kg Application Route : Oral Exposure time : 1 y Target Organs : Blood Species : Mouse NOAEL : 3 mg/kg LOAEL : 14 mg/kg Application Route : oral (feed) Exposure time : 18 Months Target Organs : Nervous system, H				
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Species : Mouse NOAEL : 3 mg/kg LOAEL : 14 mg/kg Application Route : oral (feed) Exposure time : 18 Months Target Organs : Nervous system, Heart Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Indoxacarb (ISO): General Information SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity				
NOAEL : 3 mg/kg LOAEL : 14 mg/kg Application Route : oral (feed) Exposure time : 18 Months Target Organs : Nervous system, Heart Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Indoxacarb (ISO): General Information SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity	Taiye	er organs	. 51000	
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Application Route : oral (feed) Exposure time : 18 Months Target Organs : Nervous system, Heart Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Indoxacarb (ISO): General Information SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity				
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Not classified based on available information. Experience with human exposure Components: Indoxacarb (ISO): General Information : No human information is available. SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity		J.	. Nervous syste	in, near
Experience with human exposure Components: Indoxacarb (ISO): General Information : No human information is available. SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity	-	-	allohlo information	
Components: Indoxacarb (ISO): General Information : No human information is available. SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity				
Indoxacarb (ISO): General Information : No human information is available. SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity	-		xposure	
General Information : No human information is available. SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity	Com	ponents:		
SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity		. ,		
Ecotoxicity	Gene	eral Information	: No human info	ormation is available.
	SECTION	12. ECOLOGICAL IN	FORMATION	
Components:	Ecot	oxicity		
	Com	ponents:		

Permethrin (ISO):

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rsion	Revision Date: 09.07.2024		9S Number: 866-00025	Date of last issue: 30.09.2023 Date of first issue: 04.11.2014
Toxicity	y to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0,00079 mg bh
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,0001 mg/l 3 h
Toxicit <u>y</u> plants	y to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 1 ? h
			EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0,00 ? h
	or (Acute aquatic tox-	:	10.000	
icity) Toxicit <u>y</u> icity)	y to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 35 Method: OECD Te	
	y to daphnia and other c invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
M-Fact toxicity	or (Chronic aquatic	:	10.000	
	y to microorganisms	:	EC50: > 1.000 mg Exposure time: 3	
1-Meth	ioxy-2-propanol:			
Toxicity	y to fish	:	LC50 (Leuciscus i Exposure time: 96 Method: DIN 3847	
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 23.300 mg/l 3 h
Toxicit <u>y</u> plants	y to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72 Method: ISO 1025	
Toxicity	y to microorganisms	:	IC50: > 1.000 mg/ Exposure time: 3 Method: OECD Te	h
Indoxa	acarb (ISO):			
	y to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
			LC50 (Lepomis m Exposure time: 96 Method: OECD To	

SAFETY DATA SHEET



Version 6.0	Revision Date: 09.07.2024		OS Number: 866-00025	Date of last issue: 30.09.2023 Date of first issue: 04.11.2014
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 0,6 2 h
			NOEC (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0,46 2 h
	ctor (Acute aquatic tox-	:	1	
	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 2 ²	nagna (Water flea)): 0,09 mg/l I d
	ctor (Chronic aquatic	:	1	
Persi	stence and degradabili	ty		
Comp	oonents:			
	ethrin (ISO):			
Biode	gradability	:	Result: Not readil Method: OECD T	y biodegradable. est Guideline 301F
1-Met	hoxy-2-propanol:			
Biode	gradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T	96 %
Bioac	cumulative potential			
Comp	oonents:			
Perm	ethrin (ISO):			
Bioac	cumulation	:	Species: Lepomis Bioconcentration	macrochirus (Bluegill sunfish) factor (BCF): 570
	on coefficient: n- ol/water	:	log Pow: 4,67	
	hoxy-2-propanol:			
octan	on coefficient: n- ol/water	:	log Pow: < 1	
Partiti	acarb (ISO): on coefficient: n- ol/water	:	log Pow: 4,65	



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Mobi	lity in soil				
<u>Com</u>	ponents:				
Indo	xacarb (ISO):				
	bution among environ- al compartments	: log Koc: 3,9			
Othe	r adverse effects				
No da	ata available				
SECTION 13. DISPOSAL CONSIDERATIONS					
Disp	osal methods				
Wast	e from residues		Do not dispose of waste into sewer. Dispose of in accordance with local regulations. 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		
Conta	aminated packaging	: Empty contain handling site Empty contain Do not press expose such			

sources of ignition. They may explode and cause injury and/or

If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	 UN 3092 1-METHOXY-2-PROPANOL SOLUTION 3 III 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	 1-Methoxy-2-propanol solution 3 III
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code	 UN 3092 1-METHOXY-2-PROPANOL SOLUTION (Permethrin (ISO), Indoxacarb (ISO)) 3 III 3 F-E, S-D

death.



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Marine pollutant : yes

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Argentina. Carcinogenic Substances and Agents: Not applicableRegistry.: Not applicableControl of precursors and essential chemicals for the
preparation of drugs.: Not applicable

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

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

SECTION 16. OTHER INFORMATION

Revision Date	: 09.07.2024
Date format	: dd.mm.yyyy

Further information

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

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

Full text of other abbreviations

ACGIH AR OEL		USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA ACGIH / STEL AR OEL / CMP AR OEL / CMP - CPT	:	8-hour, time-weighted average Short-term exposure limit TLV (Threshold Limit Value) STEL (Short Term Limit 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 -



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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

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 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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