

## Indoxacarb Formulation

Version 6.0	Revision Date: 28.09.2024		S Number: 10-00028	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014	
SECTION	1. IDENTIFICATION				
Produ	uct identifier	:	Indoxacarb Form	nulation	
Manu	Ifacturer or supplier'	s detai	ls		
Com	Company		MSD		
Addre	Address		Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340		
Telep	hone	:	908-740-4000		
Emer	gency telephone	:	1-908-423-6000		
E-ma	il address	:	EHSDATASTEWARD@msd.com		
Reco	mmended use of the	e chem	ical and restricti	ons on use	
Recommended use Restrictions on use		:	Veterinary product Not applicable		

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification in accord Flammable liquids	lan :	ce with ABNT NBR 14725 Standard Category 2
Acute toxicity (Oral)	:	Category 4
Eye irritation	:	Category 2A
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 2
Long-term (chronic) aquatic hazard	:	Category 2

#### GHS label elements in accordance with ABNT NBR 14725 Standard



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Hazaı	rd pictograms		
Signa	l Word	: Danger	• • •
Hazaı	rd Statements	H302 Harmful H317 May car H319 Causes H336 May car H372 Causes Heart) through	lammable liquid and vapor. I if swallowed. use an allergic skin reaction. serious eye irritation. use drowsiness or dizziness. damage to organs (Blood, Nervous system, n prolonged or repeated exposure. aquatic life with long lasting effects.
Preca	utionary Statements	Prevention:	
		and other igni P233 Keep co P270 Do not e P271 Use onl P272 Contam the workplace P273 Avoid re	elease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doc P303 + P361 Iy all contamir P304 + P340 and keep com doctor if you f P305 + P351 for several mi easy to do. Co P314 Get mee P333 + P313 vice/ attention	+ P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad- l. If eye irritation persists: Get medical advice/ at-
		<b>Storage:</b> P405 Store lo	

### Other hazards which do not result in classification

Vapors may form explosive mixture with air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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	tance / Mixture <b>ponents</b>	: Mixture		
Chen	nical name	CAS-No.	Classification	Concentration (% w/w)
Propa	an-2-ol	67-63-0	Flam. Liq., 2 Eye Irrit., 2A STOT SE, 3	>= 30 -< 50
Indox	acarb (ISO)	173584-44-6	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 4 Skin Sens., 1B STOT RE, (Blood, Nervous system, Heart), 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 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 advice.
If inhaled	:	If inhaled, remove to fresh air. 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	:	•
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. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated
Protection of first-aiders	:	exposure. 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



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				Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	High volume wate	r jet
	Specific fighting	c hazards during fire	:	fire. Flash back possib Vapors may form	I water stream as it may scatter and spread le over considerable distance. explosive mixtures with air. pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:		e, wear self-contained breathing apparatus. ective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	Remove all sources of ignition. Ventilate the area. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).	
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.	
Methods and materials for containment and cleaning up	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spra jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked materia can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and	



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		employed in determine Sections 13	this material, as well as those materials and items in the cleanup of releases. You will need to which regulations are applicable. B and 15 of this SDS provide information regarding I or national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
	nical measures /Total ventilation	CONTROL	ering measures under EXPOSURE S/PERSONAL PROTECTION section. ventilation is unavailable, use with local exhaust
			ion-proof electrical, ventilating and lighting equip-
Advic	e on safe handling	: Do not get Do not brea Do not swa Do not get Wash skin Handle in a practice, ba assessmen Non-sparkin Keep conta Keep away other ignitic Take preca Do not eat,	in eyes. thoroughly after handling. ccordance with good industrial hygiene and safety used on the results of the workplace exposure t ng tools should be used. iner tightly closed. from heat, hot surfaces, sparks, open flames and on sources. No smoking. utionary measures against static discharges. drink or smoke when using this product. o prevent spills, waste and minimize release to the
Hygie	ne measures	flushing sys place. When using Contamina workplace.	to chemical is likely during typical use, provide eye stems and safety showers close to the working g do not eat, drink or smoke. The work clothing should not be allowed out of the aminated clothing before re-use.
Condi	itions for safe storage	: Keep in pro Store locke Keep tightly Keep in a c Store in acc	perly labeled containers. d up.
Mater	ials to avoid	: Do not stor Strong oxid Self-reactiv Organic pe Flammable Pyrophoric Pyrophoric Self-heating	e with the following product types: izing agents e substances and mixtures roxides solids liquids solids g substances and mixtures and mixtures which in contact with water emit



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Gases

Very acutely toxic substances and mixtures

### 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
Propan-2-ol	67-63-0	LT	310 ppm 765 mg/m³	BR OEL
	Further information: Absorption through the skin, Degree of harm-			egree of harm-
	fulness: medium			-
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Indoxacarb (ISO)	173584-44-6	TWA	50 µg/m3 (OEB 3)	Internal
	Further information: DSEN			
		Wipe limit	100 µg/100 cm2	Internal

### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of workday at end of work- week	40 mg/l	BR BEI
		Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI
Engineering measures	lf su ven Use	imize workpla ufficient ventila tilation. e explosion-pro ipment.	ation is unava	ailable, use	with local exh	aust
Personal protective equ	ipment					
Respiratory protection	exp rec	ommended gu	ment demon iidelines, use	strates expo e respiratory	osures outside / protection.	e the
Filter type Hand protection	: Cor	: Combined particulates and organic vapor type				
Material	: Che	emical-resistar	nt gloves			
Remarks	on t time	the concentrat	ion specific t nined for the	to place of v product. Ch	chemicals dep work. Breakthr nange gloves o clarifying the	ough



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Eye p	protection	gloves with the product is flam protection. Wa workday.	chemicals of the aforementioned protective e glove manufacturer. Take note that the mable, which may impact the selection of hand ash hands before breaks and at the end of wing personal protective equipment:
Skin	and body protection	: Select approp resistance dat potential. Wear the follo If assessment atmospheres o protective clot Skin contact n	riate protective clothing based on chemical a and an assessment of the local exposure wing personal protective equipment: demonstrates that there is a risk of explosive or flash fires, use flame retardant antistatic

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	White to light yellow
Odor	:	sweet
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	18 °C
Evaporation rate	:	No data available
Evaporation rate Flammability (solid, gas)	:	No data available Not applicable
	:	
Flammability (solid, gas)		Not applicable
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper	:	Not applicable No data available No data available
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower	:	Not applicable No data available No data available
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit	:	Not applicable No data available No data available No data available



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	Density		:	1,12 g/cm <sup>3</sup>	
	Solubili Wat	ty(ies) er solubility	:	No data available	)
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty osity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	)
	Particle Particle	characteristics 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. Highly 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.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 916,54 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method



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<u>Com</u>	ponents:			
Prop	an-2-ol:			
Acute	e oral toxicity	: LD50	(Rat): > 5.0	00 mg/kg
Acute	e inhalation toxicity	Expos	(Rat): > 25 sure time: 6 atmosphere:	h
Acute	e dermal toxicity	: LD50	(Rabbit): >	5.000 mg/kg
II Indo	kacarb (ISO):			
	e oral toxicity			e): 179 mg/kg of reflexes, Breathing difficulties, Tremors
		LD50	(Rat, male):	: 843 mg/kg
Acute	e inhalation toxicity	Expos	(Rat, female sure time: 4 atmosphere:	h
Acute	e dermal toxicity	: LD50	(Rat, male a	and female): > 5.000 mg/kg
Not c	corrosion/irritation lassified based on ava ponents:	ilable informa	ation.	
Prop	an-2-ol:			
Spec Resu		: Rabbit : No ski	t in irritation	
Indo	kacarb (ISO):			
Resu	lt	: No ski	in irritation	
	ous eye damage/eye es serious eye irritatio			
Com	ponents:			
	an-2-ol:			
Spec Resu		: Rabbit : Irritatio		reversing within 21 days
	kacarb (ISO):			
Resu	lt	: No eye	e irritation	



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Resp	Respiratory or skin sensitization								
	<b>sensitization</b> cause an allergic skin	reaction.							
•	<b>iratory sensitization</b> lassified based on ava	ilable information.							
Com	ponents:								
	an-2-ol:	: Buehler Tes	•						
Test Route Spec Meth Resu	es of exposure ies od	: Skin contact : Guinea pig							
Indo	xacarb (ISO):								
Test Spec Resu	ies	: Maximization : Guinea pig : positive	n Test						
Not c	n cell mutagenicity lassified based on ava ponents:	ilable information.							
	an-2-ol:								
	otoxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) Itive						
		Test Type: li Result: nega	n vitro mammalian cell gene mutation test tive						
Genc	otoxicity in vivo	cytogenetic Species: Mo	use Route: Intraperitoneal injection						
Indo	xacarb (ISO):								
	otoxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) Itive						
			Chromosomal aberration : mammalian cells itive						
			n vitro mammalian cell gene mutation test : Chinese hamster ovary cells itive						
Geno	otoxicity in vivo	: Test Type: M Species: Mo	/licronucleus test use						



Cell type: Bone marrow Result: negative         Carcinogenicity         Not classified based on available information.         Components:         Propan-2-ol:         Species       : Rat         Application Route       : inhalation (vapor)         Exposure time       :: 104 weeks         Method       :: OECD Test Guideline 451         Result       :: negative         Indoxacarb (ISO):       : Rat, male and female         Application Route       :: oral (feed)         Exposure time       :: 2 Years         Frequency of Treatment       : daily         Result       :: negative         Species       :: Mouse, male and female         Application Route       :: oral (feed)         Exposure time       :: 18 Months         Frequency of Treatment       : daily         Result       :: negative         Reproductive toxicity       Not classified based on available information.         Components:       Propan-2-0i:         Effects on fertility       : Test Type: Two-generation reproduction toxicity st         Species: Rat       Application Route: Ingestion         Result: negative       :         Iffects on fertility       : Test Type: Two-generation study <th>ersion .0</th> <th>Revision Date: 28.09.2024</th> <th>-</th> <th>S Number: 510-00028</th> <th>Date of last issue: 06.07.2024 Date of first issue: 24.10.2014</th>	ersion .0	Revision Date: 28.09.2024	-	S Number: 510-00028	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
Not classified based on available information. Components: Propan-2-ol: Species : Rat Application Route : Inhalation (vapor) Exposure time : 104 weeks Method : OECD Test Guideline 451 Result : negative Indoxacarb (ISO): Species : Rat, male and female Application Route : oral (feed) Exposure time : 2 Years Frequency of Treatment : daily Result : negative Species : Mouse, male and female Application Route :: oral (feed) Exposure time : 18 Months Frequency of Treatment : daily Result : negative Reproductive toxicity Not classified based on available information. Components: Propan-2-ol: Effects on fertility : Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative Effects on fetal development : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative Indoxacarb (ISO): Effects on fertility : Test Type: Two-generation study Species: Rat Application Route: Ingestion Result: negative Indoxacarb (ISO): Effects on fertility : Test Type: Two-generation study Species: Rat Application Route: Ingestion Result: negative Indoxacarb (ISO): Effects on fertility : Test Type: Two-generation study Species: Rat Application Route: Ingestion Result: negative					
Species       Rat         Application Route       :         inhalation (vapor)         Exposure time       :         104 weeks         Method       :         OECD Test Guideline 451         Result       :         Result       :         Indoxacarb (ISO):         Species       :         Reproductive notice       :         Species       :         Species       :         Prequency of Treatment       :         daily       Result         Result       :         Species       :         Mouse, male and female         Application Route       :         :       :         Species       :         Species:       :         Species:       :         Species:       :			ahle	information	
Propan-2-ol:         Species       : Rat         Application Route       : inhalation (vapor)         Exposure time       : 104 weeks         Method       :: OECD Test Guideline 451         Result       : negative         Indoxacarb (ISO):       :         Species       : Rat, male and female         Application Route       : oral (feed)         Exposure time       : 2 Years         Frequency of Treatment       : daily         Result       : negative         Species       : Mouse, male and female         Application Route       : oral (feed)         Exposure time       : 18 Months         Frequency of Treatment       : daily         Result       : negative         Result       : negative         Result       : negative         Repoductive toxicity       Not classified based on available information.         Components:       Propan-2-ol:         Effects on fertility       : Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       : Test Type: Two-generation study Species:	_		1010		
Species       : Rat         Application Route       : inhalation (vapor)         Exposure time       : 104 weeks         Method       : OECD Test Guideline 451         Result       : negative         Indoxacarb (ISO):					
Species       :       Rat, male and female         Application Route       :       oral (feed)         Exposure time       :       2 Years         Frequency of Treatment       :       daily         Result       :       negative         Species       :       Mouse, male and female         Application Route       :       oral (feed)         Exposure time       :       18 Months         Frequency of Treatment       :       daily         Result       :       negative         Reproductive toxicity       .       negative         Not classified based on available information.       .         Components:       .       .         Propan-2-ol:       .       .         Effects on fertility       :       Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       :       Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       .       .         Effects on fertility       :       Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative <td>Speci Applic Expos Metho</td> <td>es cation Route sure time od</td> <td>: : : :</td> <td>inhalation (vapo 104 weeks OECD Test Gui</td> <td></td>	Speci Applic Expos Metho	es cation Route sure time od	: : : :	inhalation (vapo 104 weeks OECD Test Gui	
Species       :       Rat, male and female         Application Route       :       oral (feed)         Exposure time       :       2 Years         Frequency of Treatment       :       daily         Result       :       negative         Species       :       Mouse, male and female         Application Route       :       oral (feed)         Exposure time       :       18 Months         Frequency of Treatment       :       daily         Result       :       negative         Reproductive toxicity       .       negative         Not classified based on available information.       .         Components:       .       .         Propan-2-ol:       .       .         Effects on fertility       :       Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       :       Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       .       .         Effects on fertility       :       Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative <td>Indox</td> <td>(ISO):</td> <td></td> <td></td> <td></td>	Indox	(ISO):			
Application Route       :       oral (feed)         Exposure time       :       18 Months         Frequency of Treatment       :       daily         Result       :       negative         Reproductive toxicity         Not classified based on available information.         Components:         Propan-2-ol:         Effects on fertility       :       Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       :       Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       :       Indoxacarb (ISO):         Effects on fertility       :       Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative	Speci Applic Expos Frequ	es cation Route sure time iency of Treatment	:	oral (feed) 2 Years daily	emale
Not classified based on available information.         Components:         Propan-2-ol:         Effects on fertility       : Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       : Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative	Applic Expos Frequ	cation Route sure time iency of Treatment		oral (feed) 18 Months daily	nd female
Components:         Propan-2-ol:         Effects on fertility       : Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       Effects on fertility         Effects on fertility       : Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative		•	able	information	
Propan-2-ol:         Effects on fertility       : Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       Effects on fertility         Effects on fertility       : Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative	-				
Effects on fertility       : Test Type: Two-generation reproduction toxicity st Species: Rat Application Route: Ingestion Result: negative         Effects on fetal development       : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative         Indoxacarb (ISO):       Effects on fertility         Effects on fertility       : Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative					
Species: Rat         Application Route: Ingestion         Result: negative         Indoxacarb (ISO):         Effects on fertility         :       Test Type: Two-generation study         Species: Rat         Application Route: Oral         General Toxicity F1: NOAEL: 1,3 mg/kg body weig         Result: negative			:	Species: Rat Application Rou	ite: Ingestion
Effects on fertility : Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative	Effect	ts on fetal development	:	Species: Rat Application Rou	ite: Ingestion
Effects on fertility : Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 1,3 mg/kg body weig Result: negative	Indox	(ISO):			
Test Type: Two-generation study			:	Species: Rat Application Rou General Toxicit	ite: Oral y F1: NOAEL: 1,3 mg/kg body weight
Species: Rat					-generation study
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			General Toxicity	Parent: NOAEL: 1,3 mg/kg body weight F1: NOAEL: > 6,7 mg/kg body weight xic effects and adverse effects on the off-
Effect	ts on fetal development	:	Test Type: Develor Species: Rat Developmental To Result: No terato	oxicity: NOAEL: 2 mg/kg body weight
			Test Type: Develor Species: Rabbit Application Route Developmental Te Result: No advers	e: Oral oxicity: NOAEL: 500 mg/kg body weight
			Test Type: Develor Species: Rat Application Route Developmental Te	
			Test Type: Develor Species: Rat Application Route Developmental Te	
May o	<b>F-single exposure</b> cause drowsiness or diz: <b>ponents:</b>	zine	SS.	
Prop	an-2-ol:			
Asses		:	May cause drows	siness or dizziness.
		looc	l, Nervous system,	Heart) through prolonged or repeated
-	ponents:			
Indox	(acarb (ISO):			
	et Organs ssment	:	Blood, Nervous s Causes damage exposure.	ystem, Heart to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u>	ponents:			
Propa	an-2-ol:			
Speci		:	Rat	
NOA Applio	EL cation Route	:	12,5 mg/l inhalation (vapor)	
		•		



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Expos	sure time	: 104 Weeks	
Indox	acarb (ISO):		
Speci		: Rat, male and	famala
NOAE		: 1,7 mg/kg	Terriale
LOAE		: 4,1 mg/kg	
	ation Route	: Oral	
	sure time	: 90 d	
	t Organs	: Blood, Central	nervous system
Speci		: Rat, male and	female
NOAE		: 50 mg/kg	
LOAE		: 500 mg/kg	
	ation Route	: Dermal	
	sure time	: 28 d	
large	t Organs	: Blood	
Speci	es	: Rat	
NOAE		: 4.6 mg/m3	
LOAE	L	: 23 mg/m3	
	ation Route	: Inhalation	
	sure time	: 4 Weeks	
Targe	t Organs	: Blood, Lungs	
Speci		: Rat, male and	female
NOAE		: 1 mg/kg	
LOAE		: 2 mg/kg	
	ation Route	: Oral	
	sure time	: 1 y	
large	t Organs	: Blood	
Speci		: Dog	
NOAE		: 1 mg/kg	
LOAE		: 2 mg/kg	
Applic	ation Route	: Oral	
	sure time t Organs	: 1 y : Blood	
	-	. 51000	
Speci		: Mouse	
NOAE		: 3 mg/kg	
LOAE		: 14 mg/kg	
	ation Route	: oral (feed)	
	sure time t Organs	: 18 Months	m Hoart
raige	l Organs	: Nervous syste	III, IICAIL
Aspir	ation toxicity		
-	assified based on av	ailable information.	

### Components:

Indoxacarb (ISO):

General Information

: No human information is available.



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	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	oxicity			
Comp	oonents:			
Propa	an-2-ol:			
	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 9.640 mg/l 5 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10.000 mg/l l h
Toxici	ty to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1.050 mg/l S h
II Indox	acarb (ISO):			
	ty to fish	:	LC50 (Oncorhynd Exposure time: 96 Method: OECD T	
			LC50 (Lepomis m Exposure time: 96 Method: OECD T	
	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
M-Fac	ctor (Acute aquatic tox-	:	1	
aquati	ty to daphnia and other ic invertebrates (Chron-		NOEC (Daphnia r Exposure time: 2'	nagna (Water flea)): 0,09 mg/l ⊢d
ic toxi M-Fac toxicit	ctor (Chronic aquatic	:	1	
Persis	stence and degradabil	ity		
<u>Comp</u>	oonents:			
Propa	an-2-ol:			
Biode	gradability	:	Result: rapidly de	gradable
BOD/0	COD	:	BOD: 1,19 (BOD: COD: 2,23	5)



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		BOD/COD: 53	3 %
Bioa	ccumulative potential		
<u>Com</u>	ponents:		
Partit	an-2-ol: ion coefficient: n- nol/water	: log Pow: 0,05	
Partit	xacarb (ISO): ion coefficient: n- iol/water	: log Pow: 4,65	
Mobi	lity in soil		
Com	ponents:		
Distri	xacarb (ISO): bution among environ- al compartments	: log Koc: 3,9	
	<b>r adverse effects</b> ata available		

#### SECTION 13. DISPOSAL CONSIDERATIONS

Di	isposal	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/or death. 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 1219 ISOPROPANOL SOLUTION 3 II 3 no
<b>IATA-DGR</b> UN/ID No. Proper shipping name Class Packing group	:	UN 1219 Isopropanol solution 3 II



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Labe Pack aircra	ing instruction (cargo	:	Flammable Liquid 364	ds
Packing instruction (passen- ger aircraft)		:	353	
UN r	<b>G-Code</b> humber er shipping name	:	UN 1219 ISOPROPANOL (Indoxacarb (ISO	
Labe EmS	ing group	:	3 II 3 F-E, S-D yes	··

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

Not applicable for product as supplied.

### Domestic regulation

ANTT		
UN number	:	UN 1219
Proper shipping name	:	ISOPROPANOL, SOLUTION
Class	:	3
Packing group	:	II
Labels	:	3
Hazard Identification Number	:	33

#### 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						
National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)						
Brazil. List of chemicals controlled by the Federal : Propan-2-ol Police						
The ingredients of this product are reported in the following inventories:						
AICS	: not determined	Ū				
DSL	: not determined					
IECSC	: not determined					

#### **SECTION 16. OTHER INFORMATION**



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	ision Date e format	:	28.09.2024 dd.mm.yyyy	
Fur	ther information			
com	rces of key data used to pile the Material Safety a Sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.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	:	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)			
BR BEI	:	Brazil. NR7. Parameters for Biological Control of Occupational			
		Exposure to Some Chemical Agents			
BR OEL	:	Brazil. NR 15 - Unhealthy activities and operations			
ACGIH / TWA		8-hour, time-weighted average			
ACGIH / STEL	:	Short-term exposure limit			
BR OEL / LT	:	Up to 48 hours /week			

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



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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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