

## Indoxacarb Formulation

Commission Regulation (EU) 2020/878

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
7.1	28.09.2024	25524-00030	Date of first issue: 24.10.2014

### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier		
	Trade name	:	Indoxacarb Formulation
1.2	Relevant identified uses of the	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD
			Kilsheelan
			Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

1-908-423-6000

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 Acute toxicity, Category 4 Eye irritation, Category 2 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 3 Specific target organ toxicity - repeated exposure, Category 1 Long-term (chronic) aquatic hazard, Category 2 H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H336: May cause drowsiness or dizziness.

H372: Causes damage to organs through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

# Indoxacarb Formulation

Version 7.1	Revision Date: 28.09.2024	SDS Number: 25524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
Haza	rd pictograms		
Signa	al word	: Danger	• • •
Haza	rd statements	: H225 H302 H317 H319 H336 H372	Highly flammable liquid and vapour. 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 exposure.
		H411	Toxic to aquatic life with long lasting effects.
Preca	autionary statements	: Prevention:	
		P210 P233 P273	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid release to the environment.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P304 + P34	0 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
		P391	Collect spillage.

#### Hazardous components which must be listed on the label:

Propan-2-ol Indoxacarb (ISO)

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours may form explosive mixture with air.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

# Indoxacarb Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
7.1	28.09.2024	25524-00030	Date of first issue: 24.10.2014

## **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

Components	<u> </u>	1	
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Propan-2-ol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 30 - < 50
Indoxacarb (ISO)	173584-44-6 607-700-00-0	Acute Tox. 3; H301 Acute Tox. 4; H332 Skin Sens. 1B; H317 STOT RE 1; H372 (Blood, Nervous sys- tem, Heart) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity esti- mate Acute oral toxicity: 179 mg/kg Acute inhalation tox- icity (dust/mist): 4.2 mg/l	>= 10 - < 20

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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).



Version 7.1	Revision Date: 28.09.2024		DS Number: 524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
If inhaled		:	If inhaled, remove Get medical atter	e to fresh air. ntion if symptoms occur.
In case of skin contact		:	Remove contami Get medical atter Wash clothing be	
In cas	se of eye contact	:	In case of contact, immediately flush eyes with plenty of wa for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.	
If swallowed		:	Get medical atter Rinse mouth thor	NOT induce vomiting. ntion. roughly with water. ing by mouth to an unconscious person.
4.2 Most i	mportant symptoms a	nd e	effects, both acute	e and delayed
Risks		:	Causes serious e May cause drows	ergic skin reaction.
4.3 Indica Treat	•	meo :		d special treatment needed ically and supportively.
SECTION	N 5: Firefighting mea	sur	es	
5.1 Extino	juishing media			
-	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (( Dry chemical	
Unsu media	itable extinguishing a	:	High volume wate	er jet
5.2 Specia	al hazards arising from	n the	e substance or mi	xture
Specific hazards during fire- fighting		:	Do not use a soli fire. Flash back possi Vapours may forr	d water stream as it may scatter and spread ble over considerable distance. m explosive mixtures with air. bustion products may be a hazard to health.



# Indoxacarb Formulation

Ver 7.1	sion	Revision Date: 28.09.2024		0S Number: 524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
	Hazaro ucts	lous combustion prod-	:	Carbon oxides	
5.3	Advice	for firefighters			
	Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. tective equipment.
	Specific extinguishing meth- ods		:	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

## **SECTION 6:** Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<ul> <li>Remove all sources of ignition.</li> <li>Ventilate the area.</li> <li>Use personal protective equipment.</li> <li>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).</li> </ul>

## **6.2 Environmental precautions**

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.
---------------------------	---	--

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	<ul> <li>Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>
	certain local or national requirements.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Indoxacarb Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
7.1	28.09.2024	25524-00030	Date of first issue: 24.10.2014

## 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

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.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe mist or vapours.
		Do not swallow.
		Do not get in eyes.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as- sessment
		Non-sparking tools should be used.
		Keep container tightly closed.
		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		Take precautionary measures against static discharges.
		Do not eat, drink or smoke when using this product.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working
		place. When using do not eat, drink or smoke. Contaminated
		work clothing should not be allowed out of the workplace.
		Wash contaminated clothing before re-use.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which in contact with water, emit flammable gases Explosives Gases



# **Indoxacarb Formulation**

Version 7.1	Revision Date: 28.09.2024	SDS Number: 25524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
		Very acutely to	xic substances and mixtures
•	cific end use(s) ecific use(s)	: No data availat	ble

## **SECTION 8: Exposure controls/personal protection**

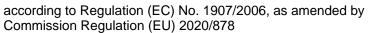
### 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Propan-2-ol	67-63-0	OELV - 8 hrs (TWA)	200 ppm	IE OEL		
			which have the capacity to pe ith it, and be absorbed into the			
		OELV - 15 min (STEL)	400 ppm	IE OEL		
	Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body					
Indoxacarb (ISO)	173584-44- 6	TWA	50 µg/m3 (OEB 3)	Internal		
	Further inform	nation: DSEN				
		Wipe limit	100 µg/100 cm2	Internal		

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Ethyl Acetoacetate	Workers	Inhalation	Long-term systemic effects	29.1667 mg/m3
	Workers	Skin contact	Long-term systemic effects	8.333 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	6.25 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4.167 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4.167 mg/kg bw/day
triacetin	Workers	Inhalation	Long-term systemic effects	35.275 mg/m3
	Workers	Skin contact	Long-term systemic effects	5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2.5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2.5 mg/kg bw/day
Propan-2-ol	Workers	Inhalation	Long-term systemic	500 mg/m3





# Indoxacarb Formulation

rsion	Revision Date: 28.09.2024		8 Number: 24-00030		of last issue: 06.07.202 of first issue: 24.10.20	
		_				
					effects	
		Workers	Skin c	ontact	Long-term systemic	
					effects	bw/day
		Consume	rs Inhala	tion	Long-term systemic	2 89 mg/m3
		-			effects	
		Consume	rs Skin c	ontact	Long-term systemic	
		Canadian		ian	effects	bw/day
		Consume	rs Ingest	1011	Long-term systemic effects	
						bw/day
Predi	cted No Effect Co	oncentratio	on (PNEC) ac	cording to	Regulation (EC) No.	1907/2006
	ance name		Environment	tal Compar	tment	Value
Ethyl /	Acetoacetate		Fresh water			0.1 mg/l
			Freshwater -		nt	1 mg/l
			Marine wate			0.01 mg/l
			Sewage trea		t	300 mg/l
			Fresh water	sediment		0.1465 mg/kg
			Marine sedir			weight (d.w.) 0.0147 mg/kg (
			Marine sedir	nent		weight (d.w.)
			Soil			0.0501 mg/kg o
			3011			weight (d.w.)
triacet	tin		Fresh water			1.88 mg/l
			Marine wate	r		0.188 mg/l
			Intermittent		)	1 mg/l
			Sewage trea			1088 mg/l
			Fresh water			4.73 mg/kg
			Marine sedir			0.47 mg/kg
			Soil			0.57 mg/kg
			Oral (Secon	dary Poisor	ning)	69.9 mg/kg foo
Propa	in-2-ol		Fresh water			140.9 mg/l
			Marine wate			140.9 mg/l
			Intermittent			140.9 mg/l
L			Sewage trea		t	2251 mg/l
			Fresh water	sediment		552 mg/kg dry
			Maning and P			weight (d.w.)
			Marine sedir	nent		552 mg/kg dry
			Soil			weight (d.w.)
1			Soil			28 mg/kg dry weight (d.w.)

#### 8.2 Exposure controls

#### **Engineering measures**

Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equipment.

#### Personal protective equipment

Eye/face protection

: Wear the following personal protective equipment: Safety goggles

Equipment should conform to I.S. EN 166

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



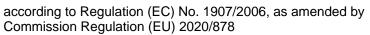
# Indoxacarb Formulation

Version 7.1	Revision Date: 28.09.2024	SDS Number: 25524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014			
Hand	protection					
Ma	aterial	: Chemical-resi	stant gloves			
Remarks Skin and body protection		<ul> <li>Choose gloves to protect hands against chemicals dependir on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is no 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 workday.</li> <li>Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.</li> <li>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.</li> <li>Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).</li> </ul>				
Fil	ter type	Equipment should conform to I.S. EN 14387 : Combined particulates and organic vapour type (A-P)				

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	White to light yellow
Odour	:	sweet
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available





# Indoxacarb Formulation

Vers 7.1	sion	Revision Date: 28.09.2024		S Number: 524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
		explosion limit / Lower bility limit	:	No data available	9
	Flash p	point	:	18 °C	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	No data available	9
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	1.12 g/cm <sup>3</sup>	
	Relativ	e vapour density	:	No data available	9
		e characteristics ticle size	:	Not applicable	
9.2		formation			
	Explosi		:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
	Evapor	ation rate	:	No data available	9
	Molecu	lar weight	:	No data available	9

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions



# Indoxacarb Formulation

Version 7.1	Revision Date: 28.09.2024	SDS Number: 25524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014			
Hazardous reactions		Vapours ma	<ul> <li>Highly flammable liquid and vapour.</li> <li>Vapours may form explosive mixture with air.</li> <li>Can react with strong oxidizing agents.</li> </ul>			
10.4 Cond	litions to avoid					
Conditions to avoid		: Heat, flames	and sparks.			
	npatible materials ials to avoid	: Oxidizing ag	ents			
10.6 Hazardous decomposition products						

No hazardous decomposition products are known.

## **SECTION 11: Toxicological information**

11.1 Information on hazard class	ses	as defined in Regulation (EC) No 1272/2008
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: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
Propan-2-ol:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 25 mg/l Exposure time: 6 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg
Indoxacarb (ISO):		
Acute oral toxicity	:	LD50 (Rat, female): 179 mg/kg Symptoms: Loss of reflexes, Breathing difficulties, Tremors
		LD50 (Rat, male): 843 mg/kg



rsion	Revision Date: 28.09.2024		Number: 1-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
Acute	inhalation toxicity	E	posure time:	nale): 4.2 mg/l : 4 h sre: dust/mist
Acute dermal toxicity			050 (Rat, ma	le and female): > 5,000 mg/kg
	corrosion/irritation	ilable info	ormation.	
<u>Comp</u>	onents:			
Propa	n-2-ol:			
Specie Result			abbit o skin irritatio	n
Indox	acarb (ISO):			
Result		: No	o skin irritatio	n
	us eye damage/eye i es serious eye irritatio			
<u>Comp</u>	onents:			
Propa	n-2-ol:			
Specie Result	es		abbit itation to eye	es, reversing within 21 days
	acarb (ISO):			
Result		: No	o eye irritatio	n
Respi	ratory or skin sensi	isation		
	ensitisation ause an allergic skin	reaction.		
-	ratory sensitisation assified based on ava	ilable info	ormation.	
<u>Comp</u>	onents:			
Propa	n-2-ol:			
Test T			uehler Test	
Expos Specie	ure routes		kin contact uinea pig	
Metho			ECD Test Gu	uideline 406
INIELIIU			egative	
Result				
Result	acarb (ISO):			
Result	<b>acarb (ISO):</b> ype		aximisation T uinea pig	est

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



rsion I	Revision Date: 28.09.2024	SDS Number: 25524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
Result	t	: positive	
Not cla	cell mutagenicity assified based on av	ailable information.	
Comp	oonents:		
-	an-2-ol: coxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
		Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve
Genot	oxicity in vivo	cytogenetic as Species: Mous	se pute: Intraperitoneal injection
Indox	acarb (ISO):		
	oxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
			romosomal aberration nammalian cells ve
			vitro mammalian cell gene mutation test Chinese hamster ovary cells ve
Genot	oxicity in vivo	: Test Type: Mic Species: Mous Cell type: Bon Result: negativ	e marrow
	n <b>ogenicity</b> assified based on av	ailable information.	
<u>Comp</u>	oonents:		
-	ın-2-ol:		
Specie Applic	es ation Route sure time od	: Rat : inhalation (vap : 104 weeks : OECD Test G : negative	
Indox	acarb (ISO):		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Vers 7.1	sion	Revision Date: 28.09.2024		9S Number: 524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
	Exposi	ation Route ure time ency of Treatment	:	oral (feed) 2 Years daily negative	
	Exposi	s ation Route ure time ency of Treatment		Mouse, male and oral (feed) 18 Months daily negative	female
	-	ductive toxicity Issified based on availa	able	information.	
	Comp	onents:			
	<b>Propa</b> Effects	n-2-ol: on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-foetal development : Ingestion
	Indoxa	acarb (ISO):			
		on fertility	:	Test Type: Two-g Species: Rat Application Route General Toxicity F Result: negative	·
				General Toxicity F	: Oral Parent: NOAEL: 1.3 mg/kg body weight F1: NOAEL: > 6.7 mg/kg body weight xic effects and adverse effects on the off-
	Effects ment	on foetal develop-	:	Test Type: Develo Species: Rat Developmental To Result: No teratog	oxicity: NOAEL: 2 mg/kg body weight
				Test Type: Develo Species: Rabbit Application Route Developmental To Result: No advers	: Oral oxicity: NOAEL: 500 mg/kg body weight

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



rsion	Revision Date: 28.09.2024	SDS Number: 25524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
		Test Type: Dev	velopment
		Species: Rat	
		Application Ro	
		Developmenta	I Toxicity: NOAEL: 10 mg/kg body weight
		Test Type: Dev	velopment
		Species: Rat	
		Application Ro	
		Developmenta	I Toxicity: LOAEL: 100 mg/kg body weight
STOT	- single exposure		
May c	ause drowsiness or o	dizziness.	
Comp	oonents:		
Propa	an-2-ol:		
Asses	sment	: May cause dro	wsiness or dizziness.
		-	
STOT	- repeated exposur	re	
Cause	es damage to organs	through prolonged or	repeated exposure.
Comr	onents:		
	acarb (ISO):		
Indox	acarb (ISO):	: Blood, Nervou	s system, Heart
<b>Indox</b> Targe		: Causes damag	s system, Heart ge to organs through prolonged or repeate
<b>Indox</b> Targe	acarb (ISO): t Organs		s system, Heart ge to organs through prolonged or repeated
<b>Indox</b> Targe Asses	acarb (ISO): t Organs	: Causes damag	
Indox Targe Asses Repe	ta <b>carb (ISO):</b> t Organs ssment	: Causes damag	
Indox Targe Asses Repe	acarb (ISO): t Organs ssment ated dose toxicity ponents:	: Causes damag	
Indox Targe Asses Repe	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol:	: Causes damag	
Indox Targe Asses Repe <u>Comp</u> Propa	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es	: Causes damag exposure.	
Indox Targe Asses Repe Comp Propa Speci NOAE	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es	<ul> <li>Causes damager constraints</li> <li>Rat</li> <li>12.5 mg/l</li> <li>inhalation (vap</li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Repe Comp Propa Speci NOAE Applic	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es	: Causes damag exposure. : Rat : 12.5 mg/l	ge to organs through prolonged or repeate
Indox Targe Asses Repe Comp Propa Speci NOAE Applic Expos	acarb (ISO): t Organs ssment ated dose toxicity oonents: an-2-ol: es EL cation Route sure time	<ul> <li>Causes damager constraints</li> <li>Rat</li> <li>12.5 mg/l</li> <li>inhalation (vap</li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Reper Comp Propa Speci NOAE Applic Expos	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es EL cation Route sure time facarb (ISO):	<ul> <li>Causes damager exposure.</li> <li>Rat</li> <li>12.5 mg/l</li> <li>inhalation (vap</li> <li>104 Weeks</li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Reper Comp Propa Speci NOAE Applic Expos Indox Speci	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es EL cation Route sure time facarb (ISO): es	<ul> <li>Causes damager exposure.</li> <li>Rat <ol> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ol> </li> <li>Rat, male and</li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Reper Comp Propa Speci NOAE Applic Expose Indox Speci NOAE	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es EL cation Route sure time acarb (ISO): es EL	<ul> <li>Causes damager exposure.</li> <li>Rat <ol> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ol> </li> <li>Rat, male and <ol> <li>1.7 mg/kg</li> </ol> </li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Repe Comp Propa Speci NOAE Applic Expos Indox Speci NOAE	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es EL cation Route sure time tacarb (ISO): es EL cat	<ul> <li>Causes damager exposure.</li> <li>Rat <ol> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ol> </li> <li>Rat, male and</li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Repe Comp Propa Speci NOAE Applic Expos Indox Speci NOAE Applic	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es EL cation Route sure time acarb (ISO): es EL	<ul> <li>Causes damager exposure.</li> <li>Rat <ul> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ul> </li> <li>Rat, male and <ul> <li>1.7 mg/kg</li> <li>4.1 mg/kg</li> </ul> </li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Repe Comp Propa Speci NOAE Applic Expos Indox Speci NOAE LOAE Applic Expos	acarb (ISO): t Organs ssment ated dose toxicity oonents: an-2-ol: es EL cation Route sure time facarb (ISO): es EL cation Route sure time	<ul> <li>Causes damage exposure.</li> <li>Rat <ul> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ul> </li> <li>Rat, male and <ul> <li>1.7 mg/kg</li> <li>4.1 mg/kg</li> <li>Oral</li> <li>90 d</li> </ul> </li> </ul>	ge to organs through prolonged or repeate
Indox Targe Asses Reper Comp Propa Speci NOAE Applic Expos Indox Speci NOAE LOAE Applic Expos Targe	acarb (ISO): t Organs ssment ated dose toxicity onents: an-2-ol: es EL cation Route sure time facarb (ISO): es EL cation Route sure time t Organs	<ul> <li>Causes damage exposure.</li> <li>Rat <ul> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ul> </li> <li>Rat, male and <ul> <li>1.7 mg/kg</li> <li>4.1 mg/kg</li> <li>Oral</li> <li>90 d</li> </ul> </li> </ul>	ge to organs through prolonged or repeate our) female nervous system
Indox Targe Asses Repe Comp Propa Speci NOAE Applic Expos Indox Speci NOAE LOAE Applic Expos	acarb (ISO): t Organs ssment ated dose toxicity onents: an-2-ol: es EL cation Route sure time facarb (ISO): es EL cation Route sure time t Organs es	<ul> <li>Causes damager exposure.</li> <li>Rat <ul> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ul> </li> <li>Rat, male and <ul> <li>1.7 mg/kg</li> <li>4.1 mg/kg</li> <li>Oral</li> <li>90 d</li> <li>Blood, Central</li> </ul> </li> </ul>	ge to organs through prolonged or repeated our) female nervous system
Indox Targe Asses Repe Comp Propa Speci NOAE Applic Expos Indox Speci NOAE LOAE Speci NOAE LOAE	acarb (ISO): t Organs ssment ated dose toxicity ponents: an-2-ol: es EL cation Route sure time t Organs es EL cation Route sure time t Organs	<ul> <li>Causes damager exposure.</li> <li>Rat <ul> <li>12.5 mg/l</li> <li>inhalation (vap)</li> <li>104 Weeks</li> </ul> </li> <li>Rat, male and <ul> <li>1.7 mg/kg</li> <li>4.1 mg/kg</li> <li>Oral</li> <li>90 d</li> <li>Blood, Central</li> <li>Rat, male and</li> </ul> </li> </ul>	ge to organs through prolonged or repeated our) female nervous system

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Indoxacarb Formulation

Version 7.1	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.07.202425524-00030Date of first issue: 24.10.2014	
	ure time Organs	: 28 d : Blood	
Expos	L	<ul> <li>Rat</li> <li>4.6 mg/m3</li> <li>23 mg/m3</li> <li>Inhalation</li> <li>4 Weeks</li> <li>Blood, Lungs</li> </ul>	
Expos	L	<ul> <li>Rat, male and female</li> <li>1 mg/kg</li> <li>2 mg/kg</li> <li>Oral</li> <li>1 yr</li> <li>Blood</li> </ul>	
Expos	L	: Dog : 1 mg/kg : 2 mg/kg : Oral : 1 yr : Blood	
Expos	L	<ul> <li>Mouse</li> <li>3 mg/kg</li> <li>14 mg/kg</li> <li>oral (feed)</li> <li>18 Months</li> <li>Nervous system, Heart</li> </ul>	

#### Aspiration toxicity

Not classified based on available information.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Experience with human exposure

#### **Components:**

#### Indoxacarb (ISO):

General Information

: No human information is available.



# Indoxacarb Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
7.1	28.09.2024	25524-00030	Date of first issue: 24.10.2014

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Components:		
<b>Propan-2-ol:</b> Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h
Indoxacarb (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.65 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.9 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.6 mg/l Exposure time: 72 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.46 mg/l Exposure time: 72 h
M-Factor (Acute aquatic tox- icity)	:	1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.09 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	1
12.2 Persistence and degradability	ity	
Components:		

## Propan-2-ol:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Indoxacarb Formulation

Version 7.1	Revision Date: 28.09.2024		DS Number: 5524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
Biode	egradability	:	Result: rapidly de	egradable
BOD/COD		:	BOD: 1,19 (BOD COD: 2,23 BOD/COD: 53 %	
12.3 Bioa	ccumulative potential			
Com	ponents:			
Partit	<b>an-2-ol:</b> ion coefficient: n- ol/water	:	log Pow: 0.05	
Partit	<b>kacarb (ISO):</b> ion coefficient: n- ol/water	:	log Pow: 4.65	
12.4 Mobi	lity in soil			
<u>Com</u>	ponents:			
Indo	kacarb (ISO):			
	bution among environ- al compartments	:	log Koc: 3.9	
12.5 Resu	Ilts of PBT and vPvB a	sse	ssment	
Prod	uct:			
Asse	ssment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting prope	ertie	es	
Prod	uct:			
Asse	ssment	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at

#### 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

:

#### 13.1 Waste treatment methods

Product

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

levels of 0.1% or higher.



# Indoxacarb Formulation

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.07.2024
7.1		25524-00030	Date of first issue: 24.10.2014
Conta	aminated packaging	discussion with Do not dispose : Empty contain dling site for re Empty contain Do not pressu pose such con of ignition. The	should be assigned by the user, preferably in h the waste disposal authorities. e of waste into sewer. ers should be taken to an approved waste han- ecycling or disposal. ers retain residue and can be dangerous. rize, cut, weld, braze, solder, drill, grind, or ex- trainers to heat, flame, sparks, or other sources ey may explode and cause injury and/or death. e specified: Dispose of as unused product.

## **SECTION 14: Transport information**

### 14.1 UN number or ID number

	ADN	:	UN 1219	
	ADR	:	UN 1219	
	RID	:	UN 1219	
	IMDG	:	UN 1219	
	ΙΑΤΑ	:	UN 1219	
14.2	2 UN proper shipping name			
	ADN	:	ISOPROPANOL, SOL	UTION
	ADR	:	ISOPROPANOL, SOL	UTION
	RID	:	ISOPROPANOL, SOL	UTION
	IMDG	:	ISOPROPANOL, SOI (Indoxacarb (ISO))	LUTION
	ΙΑΤΑ	:	Isopropanol, solution	
14.3	3 Transport hazard class(es)			
			Class	Subsidiary risks
	ADN	:	3	
	ADR	:	3	
	ADR RID	:	3 3	
	RID	:	3	
14.4	RID IMDG	:	3 3	
14.4	RID IMDG IATA	: :	3 3	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Indoxacarb Formulation

Ver 7.1	sion	Revision Date: 28.09.2024	-	9S Number: 524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014
	Hazard Labels	cation Code Identification Number restriction code	:	F1 33 3 (D/E)	
		g group cation Code Identification Number	: : : : : : : : : : : : : : : : : : : :	II F1 33 3	
	IMDG Packing Labels EmS C		:	II 3 F-E, S-D	
	aircraft	g instruction (cargo g instruction (LQ)	:	364 Y341 II Flammable Liquic	ls
	Packing ger airc	g instruction (LQ)	:	353 Y341 II Flammable Liquic	ls
14.5	5 Enviro	nmental hazards			
	<b>ADN</b> Enviror	mentally hazardous	:	yes	
	<b>ADR</b> Enviror	mentally hazardous	:	yes	
	<b>RID</b> Enviror	mentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes	

#### 14.6 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.

#### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.



# Indoxacarb Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
7.1	28.09.2024	25524-00030	Date of first issue: 24.10.2014

## **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3	
	Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.	#.
	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.	
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable	
Regulation (EC) on substances that deplete the ozone layer	: Not applicable	
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable	
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Indoxacarb (ISO)	
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable	
Seveso III: Directive 2012/18/EU of the European Parliar	ment and of the Council on the control of	

major-accident hazards involving dangerous substances.				
	0	Quantity 1	Quantity 2	
E2	ENVIRONMENTAL	200 t	500 t	
	HAZARDS			
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t	

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

## The components of this product are reported in the following inventories:

AICS	: not determined
DSL	: not determined



# Indoxacarb Formulation

Versior 7.1	-	vision Date: 09.2024	-	98 Number: 524-00030	Date of last issue: 06.07.2024 Date of first issue: 24.10.2014	
IE	CSC		:	not determined		
<b>15.2 Chemical safety assessment</b> A Chemical Safety Assessment has not been carried out.						
SECT	ION 16: (	Other information	on			
Other information : Items where changes have been made to the previous are highlighted in the body of this document by two lines.						
Fu	ull text of	H-Statements				
H225:Highly flammable liquid and vapour.H301:Toxic if swallowed.H317:May cause an allergic skin reaction.H319:Causes serious eye irritation.H332:Harmful if inhaled.H336:May cause drowsiness or dizziness.H372:Causes damage to organs through prolonged or repeatence.H400:Very toxic to aquatic life.H410:Very toxic to aquatic life with long lasting effects.		I. ergic skin reaction. ye irritation. iness or dizziness. o organs through prolonged or repeated itic life.				
Fu	Full text of other abbreviations					
Acute Tox.: Acute toxicityAquatic Acute: Short-term (acute) aquatic hazardAquatic Chronic: Long-term (chronic) aquatic hazardEye Irrit.: Eye irritationFlam. Liq.: Flammable liquidsSkin Sens.: Skin sensitisationSTOT RE: Specific target organ toxicity - repeated exposureIE OEL: Ireland. List of Chemical Agents and Carcinogens with pational Exposure Limit Values - Code of Practice, Sc		c) aquatic hazard gan toxicity - repeated exposure gan toxicity - single exposure emical Agents and Carcinogens with Occu-				
IE		ELV - 8 hrs (TWA) ELV - 15 min	:		osure limit value (8-hour reference period) osure limit value (15-minute reference peri-	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 car-



## Indoxacarb Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
7.1	28.09.2024	25524-00030	Date of first issue: 24.10.2014

rying 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

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

#### Classification of the mixture:

Classification of the mixture:		Classification procedure:		
Flam. Liq. 2	H225	Based on product data or assessment		
Acute Tox. 4	H302	Calculation method		
Eye Irrit. 2	H319	Calculation method		
Skin Sens. 1	H317	Calculation method		
STOT SE 3	H336	Calculation method		
STOT RE 1	H372	Calculation method		
Aquatic Chronic 2	H411	Calculation method		

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.

IE / EN