

Indoxacarb Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
7.1	28.09.2024	25533-00030	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 t	he 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	e safe	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

responsible for the SDS

+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.

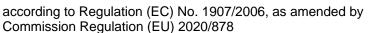
H336: May cause drowsiness or dizziness.

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)





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Hazaı	rd pictograms		
Signa	l word	: Danger	
Hazaı	rd statements	H302 Harmfu H317 May ca H319 Causes H336 May ca H372 Causes peated exposu	ilammable liquid and vapour. I if swallowed. use an allergic skin reaction. s serious eye irritation. use drowsiness or dizziness. damage to organs through prolonged or re- re. o aquatic life with long lasting effects.
Preca	utionary statements	· Prevention:	
		flames and oth P233 Keep c P273 Avoid r	way from heat, hot surfaces, sparks, open er ignition sources. No smoking. ontainer tightly closed. elease to the environment. rotective gloves/ protective clothing/ eye protec- ction.
		air and keep co CENTER/ doct	P312 IF INHALED: Remove person to fresh mfortable for breathing. Call a POISON or if you feel unwell. 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.



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Commission Regulation (EU) 2020/878

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

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 system, 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 toxicity (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,



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				mmended personal protective equipment al for exposure exists (see section 8).
If inh	aled	:	If inhaled, remove Get medical atter	e to fresh air. ition if symptoms occur.
In case of skin contact		:	Remove contamin Get medical atter Wash clothing be	
In case of eye contact		:	for at least 15 mir	ove contact lens, if worn.
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.	
4.2 Most	important symptoms a	nd	effects, both acute	e and delayed
Risks	3	:	Causes serious e May cause drows	ergic skin reaction.
4.3 Indica	tion of any immediate	me	dical attention and	d special treatment needed
Treat	ment	:	Treat symptomat	cally and supportively.
SECTIO	N 5: Firefighting mea	sur	es	
5.1 Exting	guishing media			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsu medi	itable extinguishing a	:	High volume wate	er jet
5.2 Speci	al hazards arising from	n the	e substance or mi	xture
Spec fighti	ific hazards during fire- ng	:	fire. Flash back possil	d water stream as it may scatter and spread ble over considerable distance. n explosive mixtures with air.



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	Hazarc	lous combustion prod-	:	·	oustion products may be a hazard to health.
5.3		for firefighters I protective equipment ighters	:		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

1 /1	
Personal precautions	 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).
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	: 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 contain- ment 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 absor- bent.
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding
	certain local or national requirements.

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



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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-
Advice on safe handling		ment. Do not get on skin or clothing.
Advice on sale handling	•	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 assessment
		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,	, incl	uding 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



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		Gases Very acutely toxic substances and mixtures			
•	f ic end use(s) ific use(s)	: No data availa	able		

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	TWA	100 ppm 245 mg/m3	FOR-2011- 12-06-1358		
Indoxacarb (ISO)	173584-44- 6	TWA	50 µg/m3 (OEB 3)	Internal		
	Further information: 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 effects	500 mg/m3
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m3

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		Consume	rs	Skin contact	Long-term syster effects		319 mg/kg bw/day
		Consume	rs	Ingestion	Long-term syster effects	nic	26 mg/kg bw/day
Predi	cted No Effect Co	oncentratio	on (PN	EC) according t	o Regulation (EC)	No. 1	907/2006
Subst	tance name		Envir	onmental Compa	rtment	V	alue
Ethyl	Acetoacetate		Fres	n water		0	,1 mg/l
			Fres	nwater - intermitte	nt		mg/l
			Marir	ne water		0	,01 mg/l
			Sewa	age treatment plar	nt	3	00 mg/l
				n water sediment		0	,1465 mg/kg d
							eight (d.w.)
			Marine sediment				,0147 mg/kg d
						w	eight (d.w.)
			Soil				,0501 mg/kg d
						w	eight (d.w.)
triace	tin		Fres	n water		1	,88 mg/l
			Marir	ne water		0	,188 mg/l
			Interi	nittent use/releas	е	1	mg/l
			Sewa	age treatment plar	nt	1	088 mg/l
			Fresh water sediment Marine sediment			4	,73 mg/kg
						0	,47 mg/kg
			Soil			0	,57 mg/kg
			Oral	(Secondary Poiso	ning)	6	9,9 mg/kg food
Propa	an-2-ol		Fres	n water		1	40,9 mg/l
			Marir	ne water		1	40,9 mg/l
			Inter	mittent use/releas	е	1	40,9 mg/l
			Sewa	age treatment plar	nt	2	251 mg/l
			Fres	n water sediment		5	52 mg/kg dry
						w	eight (d.w.)
			Marir	ne sediment		5	52 mg/kg dry
							eight (d.w.)
			Soil				8 mg/kg dry
							eight (d.w.)
			Oral	(Secondary Poiso	ning)	1	60 mg/kg food

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 equipme	ent	
Eye/face protection	:	Wear the following personal protective equipment: Safety goggles Equipment should conform to NS EN 166
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending

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Skin	and body protection	stance and sp determined fo applications, v chemicals of t glove manufa which may im hands before : Select approp sistance data tial. Wear the follo If assessment	ntration and quantity of the hazardous sub- becific to place of work. Breakthrough time is not in the product. Change gloves often! For special we recommend clarifying the resistance to the aforementioned protective gloves with the cturer. Take note that the product is flammable, pact the selection of hand protection. Wash breaks and at the end of workday. wriate protective clothing based on chemical re- and an assessment of the local exposure poten- wing personal protective equipment: t demonstrates that there is a risk of explosive or flash fires, use flame retardant antistatic pro-
Respiratory protection		tective clothin Skin contact r clothing (glove : If adequate lo sure assessm ommended gu Equipment sh	g. nust be avoided by using impervious protective es, aprons, boots, etc). cal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection. ould conform to NS EN 14387
FI	ilter type	: Combined pa	rticulates 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
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	18 °C

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	Auto-ig	nition temperature	:	No data available	e
	Decom	position temperature	:	No data available	e
	рН		:	No data availabl	e
	Viscos Visc	ity cosity, kinematic	:	No data available	e
	Solubil Wa	ity(ies) ter solubility	:	No data availabl	e
	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Vapou	r pressure	:	No data available	e
	Relativ	e density	:	No data available	e
	Density	¢	:	1,12 g/cm ³	
	Relativ	e vapour density	:	No data available	e
		e characteristics ticle size	:	Not applicable	
9.2 (Other in	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance c	r mixture is not classified as oxidizing.
	Evapoi	ration rate	:	No data available	e
	Molecu	ılar weight	:	No data availabl	e

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

Hazardous reactions	:	Highly flammable liquid and vapour.
		Vapours may form explosive mixture with air.
		Can react with strong oxidizing agents.

10.4 Conditions to avoid



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Condi	tions to avoid	:	Heat, flames and	sparks.
10.5 Incon	npatible materials			
Materi	ials to avoid	:	Oxidizing agents	
No ha	rdous decomposition	pro	ducts are known.	
SECTION	11: Toxicological ir	nfor	mation	
			-	ulation (EC) No 1272/2008
Inform expos	nation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed.			
<u>Produ</u>	<u>ict:</u>			
Acute	oral toxicity	:	Acute toxicity estir Method: Calculation	mate: 916,54 mg/kg on method
Acute	inhalation toxicity	:	Acute toxicity estir Exposure time: 4 I Test atmosphere: Method: Calculatio	h dust/mist
Comp	oonents:			
Propa	ın-2-ol:			
Acute	oral toxicity	:	LD50 (Rat): > 5.00	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 25 r Exposure time: 6 r Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rabbit): > 5	5.000 mg/kg
Indox	acarb (ISO):			
	oral toxicity	:	LD50 (Rat, female Symptoms: Loss c	e): 179 mg/kg of reflexes, Breathing difficulties, Tremors
			LD50 (Rat, male):	843 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat, female Exposure time: 4 I Test atmosphere:	ĥ
Acute	dermal toxicity	:	LD50 (Rat, male a	and female): > 5.000 mg/kg

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Skin corrosion/irritation

Not classified based on available information.

Components:

Propan-2-ol:

Species	:	Rabbit
Result	:	No skin irritation

Indoxacarb (ISO):

Result

: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Propan-2-ol:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

Indoxacarb (ISO):

Result	: No eye ii	ritation
--------	-------------	----------

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Propan-2-ol:

Test Type
Exposure routes
Species
Method
Result

Buehler Test
Skin contact
Guinea pig
OECD Test Guideline 406
negative

Indoxacarb (ISO):

Test Type	:	Maximisation Test
Species	:	Guinea pig
Result	:	positive

Germ cell mutagenicity

Not classified based on available information.



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<u>Comp</u>	oonents:					
Propa	an-2-ol:					
-	toxicity in vitro		: Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
			Test Type: In v Result: negativ	<i>v</i> itro mammalian cell gene mutation test /e		
Genotoxicity in vivo			cytogenetic as Species: Mous	se ute: Intraperitoneal injection		
Indox	acarb (ISO):					
	toxicity in vitro		Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e		
				romosomal aberration nammalian cells /e		
				<i>v</i> itro mammalian cell gene mutation test Chinese hamster ovary cells <i>v</i> e		
Genot	toxicity in vivo		Test Type: Mic Species: Mous Cell type: Bone Result: negativ	e marrow		
	n ogenicity assified based on ava	ailahle i	oformation			
	oonents:		normation.			
Specie Applic	ation Route sure time od	:	Rat inhalation (vap 104 weeks OECD Test Gu negative			
Indox	acarb (ISO):					
Specie Applic Expos	es ation Route sure time ency of Treatment	 Rat, male and female oral (feed) 2 Years daily negative 		female		

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	Expos	ation Route ure time ency of Treatment		Mouse, male and oral (feed) 18 Months daily negative	female
	-	ductive toxicity assified based on availa	able	information.	
	<u>Comp</u>	onents:			
	Propa Effects	n-2-ol: s 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	o-foetal development : Ingestion
		acarb (ISO): s on fertility	:	Result: negative	: Oral 1: NOAEL: 1,3 mg/kg body weight
				General Toxicity F	: Oral Parent: NOAEL: 1,3 mg/kg body weight 1: NOAEL: > 6,7 mg/kg body weight kic 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: Develor Species: Rabbit Application Route Developmental To Result: No advers	: Oral oxicity: NOAEL: 500 mg/kg body weight
				Test Type: Develo Species: Rat Application Route Developmental To	

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		Test Type: Dev Species: Rat Application Rou Developmental	
	OT - single exposure ay cause drowsiness or diz	ziness.	
<u>Cc</u>	omponents:		
	opan-2-ol: ssessment	: May cause drov	wsiness or dizziness.
Ca	OT - repeated exposure auses damage to organs th omponents:	rough prolonged or n	epeated exposure.
In Ta	doxacarb (ISO): Irget Organs ssessment	: Blood, Nervous : Causes damag exposure.	s system, Heart e to organs through prolonged or repeated
	epeated dose toxicity		
Sp NC Ap	opan-2-ol: becies DAEL oplication Route cposure time	: Rat : 12,5 mg/l : inhalation (vapo : 104 Weeks	our)
Sp NC LC Ap Ex	doxacarb (ISO): becies DAEL DAEL oplication Route sposure time arget Organs	: Rat, male and f : 1,7 mg/kg : 4,1 mg/kg : Oral : 90 d : Blood, Central i	emale nervous system
NC LC Ap Ex	Decies DAEL DAEL Oplication Route posure time trget Organs	: Rat, male and f : 50 mg/kg : 500 mg/kg : Dermal : 28 d : Blood	emale
	oecies DAEL	: Rat : 4.6 mg/m3	

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Expo	EL cation Route sure time et Organs	 23 mg/m3 Inhalation 4 Weeks Blood, Lungs 	
Expo	EL	 Rat, male and female 1 mg/kg 2 mg/kg Oral 1 yr Blood 	
Expo	EL	: Dog : 1 mg/kg : 2 mg/kg : Oral : 1 yr : Blood	
Expo	EL	 Mouse 3 mg/kg 14 mg/kg oral (feed) 18 Months Nervous system, Heart 	

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.



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SECTION 12: Ecological information

12.1 Toxicity

Components:		
Propan-2-ol: 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 degradabili	ity	
Components:		

Propan-2-ol:

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



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Bio	degradability	:	Result: rapidly degradable		
BO	D/COD	:	: BOD: 1,19 (BOD5) COD: 2,23 BOD/COD: 53 %		
12.3 Bio	accumulative potential				
Co	mponents:				
Par	pan-2-ol: tition coefficient: n- anol/water	:	log Pow: 0,05		
Par	oxacarb (ISO): tition coefficient: n- anol/water	:	log Pow: 4,65		
12.4 Mo	Mobility in soil				
<u>Co</u>	mponents:				
Dis	oxacarb (ISO): tribution among environ- ntal compartments	:	log Koc: 3,9		
12.5 Re	sults of PBT and vPvB a	isse	ssment		
	essment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	

12.6 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.

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



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Conta	minated packaging	Waste codes s discussion with Do not dispose Empty containe dling site for re Empty containe Do not pressur pose such con of ignition. The	t specific, but application specific. should be assigned by the user, preferably in in 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- tainers to heat, flame, sparks, or other sources by 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 UN proper shipping name		
ADN	:	ISOPROPANOL, SOLUTION
ADR	:	ISOPROPANOL, SOLUTION
RID	:	ISOPROPANOL, SOLUTION
IMDG	:	ISOPROPANOL, SOLUTION (Indoxacarb (ISO))
ΙΑΤΑ	:	Isopropanol, solution
1/ 3 Transport bazard class(os)		

14.3 Transport hazard class(es)

		Class	Subsidiary risks
ADN	:	3	
ADR	:	3	
RID	:	3	
IMDG	:	3	
ΙΑΤΑ	:	3	
14.4 Packing group			
ADN Packing group Classification Code Hazard Identification Number Labels	-	II F1 33 3	
ADR			

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



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	Hazard Labels	g group cation Code Identification Number restriction code		II F1 33 3 (D/E)	
		g group cation Code Identification Number	: : :	II F1 33 3	
	IMDG Packing Labels EmS Co		:	ll 3 F-E, S-D	
	aircraft)	g instruction (cargo		364 Y341 II Flammable Liquid	s
	Packing ger airc	g instruction (LQ)	: : : :	353 Y341 II Flammable Liquid	S
14.5	5 Enviro	nmental hazards			
	ADN Environ	mentally hazardous	:	yes	
	ADR Environ	mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	IMDG 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.



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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 Conditions of restriction for the fol-: the market and use of certain dangerous substances, lowing entries should be considered: Number on list 3 mixtures and articles (Annex XVII) 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 conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not. REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation : Not applicable (Annex XIV) Regulation (EC) on substances that deplete the ozone Not applicable : laver Regulation (EU) 2019/1021 on persistent organic pollu-Not applicable : tants (recast) Regulation (EU) No 649/2012 of the European Parlia-Indoxacarb (ISO) : ment and the Council concerning the export and import of dangerous chemicals Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL	200 t	500 t
	HAZARDS		
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

Other regulations:

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

AICS	: not determine	d
DSL	: not determine	d



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IECS	SC	: not determine	ed		
	mical safety assessm al Safety Assessment		l out.		
SECTIO	N 16: Other informa	tion			
Othe	Other information :		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 H-Statements				
H225 H301 H317 H319 H332 H336 H372 H400 H410)	 Toxic if swall May cause at Causes serio Harmful if inh May cause dt Causes dama exposure. Very toxic to 	 Highly flammable liquid and vapour. Toxic if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. 		
Full	text of other abbrevia	tions			
Aqua Aqua Eye I Flam Skin STO STO FOR	. Liq. Sens. T RE T SE -2011-12-06-1358 -2011-12-06-1358 /	: Long-term (c : Eye irritation : Flammable lie : Skin sensitisa : Specific targe : Specific targe	cute) aquatic hazard hronic) aquatic hazard quids ation et organ toxicity - repeated exposure et organ toxicity - single exposure upational Exposure limits		
			ernational Carriage of Dangerous Goods by Inland International Carriage of Dangerous Goods by		

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 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;



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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; 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

Further information

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

Classification procedure: Flam. Liq. 2 H225 Based on product data or assessment Acute Tox. 4 Calculation method H302 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.

NO / EN