

Version 6.0	Revision Date: 28.09.2024		S Number: 374-00026	Date of last issue: 09.07.2024 Date of first issue: 04.11.2014				
SECTION	SECTION 1. IDENTIFICATION							
Produ	uct identifier	:	Indoxacarb / Per	methrin Formulation				
Manu	facturer or supplier	s deta	ils					
Comp	bany	:	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	:	EHSDATASTEV	VARD@msd.com				
Reco	mmended use of the	chem	ical and restriction	ons on use				
	mmended use ictions on use	:	Veterinary produ Not applicable	ıct				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 StandardFlammable liquids: Category 3							
Acute toxicity (Oral)	:	Category 4					
Acute toxicity (Inhalation)	:	Category 4					
Skin sensitization	:	Category 1					
Specific target organ toxicity - single exposure	:	Category 3					
Specific target organ toxicity - repeated exposure	:	Category 1 (Blood, Nervous system, Heart)					
Short-term (acute) aquatic hazard	:	Category 1					
Long-term (chronic) aquatic hazard	:	Category 1					

GHS label elements in accordance with ABNT NBR 14725 Standard



ersion)	Revision Date: 28.09.2024	SDS Number: 27874-00026	Date of last issue: 09.07.2024 Date of first issue: 04.11.2014
Hazar	rd pictograms		
Signa	l Word	: Danger	
Hazar	rd Statements	H302 + H332 H317 May cau H336 May cau H372 Causes Heart) through	ble liquid and vapor. Harmful if swallowed or if inhaled. use an allergic skin reaction. use drowsiness or dizziness. damage to organs (Blood, Nervous system, n prolonged or repeated exposure. tic to aquatic life with long lasting effects.
Preca	utionary Statements	and other igni P233 Keep co P270 Do not e P271 Use only P272 Contam the workplace P273 Avoid re	lease to the environment. otective gloves/ protective clothing/ eye protective
		Response:	
		P301 + P312 CENTER/ doc P303 + P361 Iy all contamir P304 + P340 and keep com doctor if you fe P314 Get med	lical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ac
		Storage:	
		P405 Store lo	cked up.
	hazards which do no		

er, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture		
Components			
Chemical name	CAS-No.	Classification	Concentration (% w/w)



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Perm	ethrin (ISO)	52645-53-1	Acute Tox. (Oral), 4 Acute Tox. (Inhala- tion), 4 Skin Sens., 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 30 -< 50	
1-Me	thoxy-2-propanol	107-98-2	Flam. Liq., 3 Acute Tox. (Oral), 5 Acute Tox. (Inhala- tion), 5 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed or if inhaled. May cause an allergic skin reaction. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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Note	s to physician	:	when the potentia	mmended personal protective equipment al for exposure exists (see section 8). ically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASL	IRES	
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsu medi	itable extinguishing a	:	High volume wate	er jet
Spec fighti	ific hazards during fire ng	:	fire. Flash back possil Vapors may form	d water stream as it may scatter and spread ole over considerable distance. explosive mixtures with air. bustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Chlorine compou	nds
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	ial protective equipment e-fighters	:		e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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 spray jet. For large spills, provide diking or other appropriate



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		can be pumper container. Clean up rema absorbent. Local or nation disposal of this employed in th determine whic Sections 13 ar	o keep material from spreading. If diked material d, store recovered material in appropriate aining materials from spill with suitable nal regulations may apply to releases and s material, as well as those materials and items ne cleanup of releases. You will need to ch regulations are applicable. Ind 15 of this SDS provide information regarding r national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE
Local/Total ventilation	:	CONTROLS/PERSONAL PROTECTION section. 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 vapors. Do not swallow. Avoid contact with 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.
Conditions for safe storage	:	Keep in properly labeled 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.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Flammable solids



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		Substances ar flammable gas Explosives Gases	lids ubstances and mixtures nd mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

			1	
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		``		
		exposure)	concentration	
Permethrin (ISO)	52645-53-1	TWA	80 µg/m3 (OEB 3)	Internal
		Wipe limit	800 µg/100 cm ²	Internal
1-Methoxy-2-propanol	107-98-2	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
Indoxacarb (ISO)	173584-44-6	TWA	50 µg/m3 (OEB 3)	Internal
	Further informa	Further information: DSEN		
		Wipe limit	100 µg/100 cm2	Internal

Ingredients with workplace control parameters

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	nt
Respiratory protection Filter type	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type
Hand protection	
Material	Chemical-resistant gloves
Remarks	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.
Eye protection	: Wear the following personal protective equipment:
Skin and body protection	Safety glasses Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment:



If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing. SECTION 9. PHYSICAL AND CHEMENTIES Physical state : liquid Color : Clear white to yellow. Odor :: ether-like Odor :: ether-like Odor :: No data available pH :: No data available pH :: No data available pH :: No data available Initial boiling point and boiling range :: No data available Flash point :: 33,5 °C Evaporation rate :: No data available Flammability (solid, gas) :: No data available Ipper explosion limit / Upper flammability limit : No data available Vapor pressure :: No data available Relative density :: No data available Relative density : No data available Parmability limit : No data available Relative density : No data available Pare	Version 6.0	Revision Date: 28.09.2024		S Number: 374-00026	Date of last issue: 09.07.2024 Date of first issue: 04.11.2014
Physical state:i lquidColor:Clear white to yellow.Odor:e ther-likeOdor Threshold:No data availablepH:No data availableMetting point/freezing point:No data availableInitial boiling point and boiling:No data availableFlash point:33,5 °CEvaporation rate:No data availableFlammability (solid, gas):No data availableFlammability (solid, gas):No data availableFlammability (liquids):No data availablePoper explosion limit / Upper:No data availableVapor pressure:No data availableRelative density:No data availableRelative density:No data availableSolubility(fies):No data availableSolubility(fies):No data availablePartition coefficient: n- octanol/water:No data availablePartition coefficient: n- octanol/water:No tata available<				atmospheres or fl protective clothing Skin contact must	ash fires, use flame retardant antistatic g. t be avoided by using impervious protective
Color:Clear white to yellow.Odor:ether-likeOdor Threshold:No data availablepH:No data availablepH initial boiling point/freezing point:No data availableInitial boiling point and boiling range:No data availableFlash point:No data availableFlash point:No data availableFlammability (solid, gas):No data availableFlammability (liquids):No data availableFlammability (liquids):No data availableLower explosion limit / Lower:No data availableRelative vapor density:No data availableRelative density:No data availableSolubility(ies):No data availableSolubility(ies):No data availablePartition coefficient: n- octanol/water:No tata availablePartition coefficient: n- octanol/water:No data availablePartition coefficient: n- octanol/water:No data availablePartition coefficient: n- octanol/water:No data availablePart	SECTION	9. PHYSICAL AND CHI	ΞΜΙΟ		8
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Autoignition temperature : No data available			:	Not applicable	
Decomposition temperature : No data available			:	No data available	9
	Deco	mposition temperature	:	No data available	9



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	osity scosity, kinematic osive properties		data available explosive	9
	zing properties cular weight		e substance o data available	r mixture is not classified as oxidizing.
	cle characteristics cle size	: Not	applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed or if inhal	led.	
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 572,63 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Components:		
Permethrin (ISO):		
Acute oral toxicity	:	LD50 (Rat): 480 - 554 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist

SAFETY DATA SHEET



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Acute	e dermal toxicity	:	LD50 (Rabbit)	: > 2.000 mg/kg			
	thoxy-2-propanol:						
Acute	e oral toxicity	:	LD50 (Rat): 4.	016 mg/kg			
Acute inhalation toxicity			LC50 (Mouse): < 22,2 mg/l Exposure time: 6 h Test atmosphere: vapor				
Acute	e dermal toxicity	:	LD50 (Rat): > Assessment: T toxicity	2.000 mg/kg The substance or mixture has no acute derma			
Indox	(acarb (ISO):						
	e oral toxicity	:		nale): 179 mg/kg ss of reflexes, Breathing difficulties, Tremors			
			LD50 (Rat, ma	ale): 843 mg/kg			
Acute	inhalation toxicity	:	: LC50 (Rat, female): 4,2 mg/l Exposure time: 4 h Test atmosphere: dust/mist				
Acute	e dermal toxicity	:	LD50 (Rat, ma	ale and female): > 5.000 mg/kg			
Skin	corrosion/irritation						
Not c	lassified based on ava	ilable	information.				
<u>Com</u>	ponents:						
	· (
Perm	ethrin (ISO):						
Perm Speci Resu	ies	:	Rabbit No skin irritatio	on			
Speci Resu	ies It	:		on			
Speci Resu	ies It thoxy-2-propanol:	:		on			
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1-Methoxy-2-propanol: Species : Rabbit Result : No eye irritation Indoxacarb (ISO):	/ersion 3.0	Revision Date: 28.09.2024	SDS Number: 27874-00026	Date of last issue: 09.07.2024 Date of first issue: 04.11.2014
Species : Rabbit Result : No eye irritation Indoxacarb (ISO):	1-Met	thoxy-2-propanol:		
Result : No eye irritation Indoxacarb (ISO):			· Rabbit	
Indoxacarb (ISO): Result : No eye irritation Respiratory or skin sensitization Skin sensitization May cause an allergic skin reaction. Respiratory sensitization Not classified based on available information. Components: Permethrin (ISO): Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro				n
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May cause an allergic skin reaction. Respiratory sensitization Not classified based on available information. Components: Permethrin (ISO): Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : positive Gern cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Resp	iratory or skin sensi	itization	
Respiratory sensitization Not classified based on available information. Components: Permethrin (ISO): Test Type :: Bushler Test Routes of exposure :: Species :: Guinea pig Result : Positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: Test Type : Maximization Test Routes of exposure : Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Gern cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test Result: negative : Test Type: Chromosome aberration test in vitro	Skin	sensitization		
Not classified based on available information. Components: Permethrin (ISO): Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : positive Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	May c	cause an allergic skin	reaction.	
Components: Permethrin (ISO): Test Type :: Routes of exposure :: Species :: Guinea pig Result : Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : ndoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : Result : Indoxacarb (ISO): Test Type : Maximization Test Species : Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test Result: negative	Resp	iratory sensitization	1	
Permethrin (ISO): Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: : Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): : Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): : Its Type Test Type : Maximization Test Species : : Result : positive Gern cell mutagenicity : Not classified based on available information. Components: : : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : : <td>Not cl</td> <td>lassified based on ava</td> <td>ailable information.</td> <td></td>	Not cl	lassified based on ava	ailable information.	
Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: : Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): : Test Type Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): : Germ cell mutagenicity Not classified based on available information. : Components: : Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : Test Type: In vitro mammalian cell gene mutation test Result: negative : Test Type: Chromosome aberration test in vitro	Com	ponents:		
Routes of exposure : Skin contact Species : Guinea pig Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: : Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): : Test Type Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): : Test Type Test Type : Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity . Not classified based on available information. Components: : Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro	Perm	ethrin (ISO):		
Species : Guinea pig Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: . Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): . Test Type : Maximization Test Species Species : Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Test	Туре		
Result : positive Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: : Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): : Test Type : Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity : Maximization Test Not classified based on available information. : Components: : Permethrin (ISO): : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro				
Assessment : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: : Probability or evidence of skin sensitization in humans 1-Methoxy-2-propanol: : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): : Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : negative Indoxacarb (ISO): : Germ cell mutagenicity Not classified based on available information. : Components: : Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative : Test Type: Chromosome aberration test in vitro :				
1-Methoxy-2-propanol: Test Type Maximization Test Routes of exposure Skin contact Species Guinea pig Result negative Indoxacarb (ISO): Indoxacarb (ISO): Test Type Maximization Test Species Guinea pig Result genea pig Result positive Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Resu	IL	positive	
Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): . Test Type : Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test negative	Asses	ssment	: Probability or e	evidence of skin sensitization in humans
Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): . Test Type : Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity . Not classified based on available information. . Components: . Permethrin (ISO): . Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	1-Met	thoxy-2-propanol:		
Routes of exposure : Skin contact Species : Guinea pig Result : negative Indoxacarb (ISO): . Test Type : Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity . Not classified based on available information. . Components: . Permethrin (ISO): . Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative . Test Type: In vitro mammalian cell gene mutation test Result: negative . Test Type: Chromosome aberration test in vitro	Test	Туре	: Maximization T	est
Result : negative Indoxacarb (ISO):			: Skin contact	
Indoxacarb (ISO): Test Type : Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Speci	es		
Test Type : Maximization Test Species : Guinea pig Result : positive Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Resu	lt	: negative	
Species : Guinea pig Result : positive Germ cell mutagenicity Not classified based on available information. Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Indox	(acarb (ISO):		
Species : Guinea pig Result : positive Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Test	Туре	: Maximization T	est
Germ cell mutagenicity Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro			: Guinea pig	
Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Resu	lt	: positive	
Not classified based on available information. Components: Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Germ	cell mutagenicity		
Permethrin (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro			ailable information.	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	<u>Com</u>	ponents:		
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro	Perm	ethrin (ISO):		
Result: negative Test Type: Chromosome aberration test in vitro	Geno	toxicity in vitro		
			Test Type: Chr Result: negativ	
Test Type: DNA damage and repair, unscheduled DNA	II		Test Type: DN	A damage and repair, unscheduled DNA syn-



rsion	Revision Date: 28.09.2024	SDS Number: 27874-00026	Date of last issue: 09.07.2024 Date of first issue: 04.11.2014
		thesis in mam Result: negati	imalian cells (in vitro) ive
		Test Type: Ch Result: positiv	nromosome aberration test in vitro /e
Genotoxicity in vivo		: Test Type: Ma cytogenetic a Species: Mou Result: negat	se
		Test Type: Ro Species: Mou Result: negati	
		cytogenetic as Species: Rat	oute: Intraperitoneal injection
		cytogenetic te Species: Mou	oute: Ingestion
	cell mutagenicity - sment	: Weight of evic cell mutagen.	dence does not support classification as a gerr
1-Met	hoxy-2-propanol:		
	oxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: Cł Result: negat	nromosome aberration test in vitro ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
		Test Type: In malian cells Result: equive	vitro sister chromatid exchange assay in mam ocal
		thesis in mam	NA damage and repair, unscheduled DNA syn Imalian cells (in vitro) D Test Guideline 482 Ive



ersion)	Revision Date: 28.09.2024	SDS Number: 27874-00026	Date of last issue: 09.07.2024 Date of first issue: 04.11.2014				
Genotoxicity in vivo		cytogenetic as Species: Mou Application Ro	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative				
Indox	acarb (ISO):						
Genotoxicity in vitro		: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve				
			romosomal aberration nammalian cells ve				
			vitro mammalian cell gene mutation test Chinese hamster ovary cells ve				
Geno	toxicity in vivo	: Test Type: Mi Species: Mou Cell type: Bon Result: negati	e marrow				
Not cl	nogenicity assified based on ava	-					
Not cl <u>Comp</u>	assified based on ava ponents: ethrin (ISO):	-					
Not cl <u>Comp</u> Perm	assified based on ava ponents: ethrin (ISO): es	ailable information.					
Not cl Comp Perm Speci	assified based on ava ponents: ethrin (ISO): es t es	ailable information.					
Not cl <u>Comp</u> Perm Speci Resul Speci Resul	assified based on ava ponents: ethrin (ISO): es t es	ailable information. : Rat : negative : Mouse					
Not cl <u>Comp</u> Perm Speci Resul Speci Resul	assified based on ava <u>ponents:</u> ethrin (ISO): es t es t hoxy-2-propanol:	ailable information. : Rat : negative : Mouse					
Not cl Comp Perm Speci Resul Speci Resul 1-Met Speci Applic	assified based on ava <u>ponents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vag					
Not cl <u>Comp</u> Perma Speci Resul Speci Resul 1-Met Speci Applic Expos	assified based on ava <u>ponents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vap : 2 Years	DOT)				
Not cl Comp Perm Speci Resul Speci Resul 1-Met Speci Applic	assified based on ava <u>ponents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vag	DOT)				
Not cl <u>Comp</u> Perma Speci Resul Speci Resul 1-Met Speci Applic Expos Methor Resul	assified based on ava <u>ponents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od	ailable information. : Rat : negative : Mouse : negative : negative : argative : comparison (vapure) : 2 Years : OECD Test G	DOT)				
Not cl <u>Comp</u> Perm Speci Resul Speci Resul 1-Met Speci Applic Expos Metho Resul Indox	assified based on ava <u>ponents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od t facarb (ISO): es	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vap : 2 Years : OECD Test G : negative : Rat, male and	por) uideline 453				
Not cl <u>Comp</u> Perm Speci Resul Speci Resul 1-Met Speci Applic Expos Methor Resul Indox	assified based on ava <u>conents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od t cacarb (ISO): es cation Route	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vap : 2 Years : OECD Test G : negative : Rat, male and : oral (feed)	por) uideline 453				
Not cl Comp Perm Speci Resul Speci Resul 1-Met Speci Applic Expos Metho Resul Indox	assified based on ava <u>conents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od t f cacarb (ISO): es cation Route sure time	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vap : 2 Years : OECD Test G : negative : Rat, male and : oral (feed) : 2 Years	por) uideline 453				
Not cl Comp Perm Speci Resul Speci Resul 1-Met Speci Applic Expos Metho Resul Indox	assified based on ava <u>conents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od t cacarb (ISO): es cation Route sure time ency of Treatment	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vap : 2 Years : OECD Test G : negative : Rat, male and : oral (feed)	por) uideline 453				
Not cl <u>Comp</u> Perm Speci Resul Speci Resul 1-Met Speci Applic Expos Metho Resul Indox Speci Applic Expos Frequ Resul	assified based on ava <u>conents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od t cacarb (ISO): es cation Route sure time ency of Treatment t es	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vap : 2 Years : OECD Test G : negative : Rat, male and : oral (feed) : 2 Years : daily : negative : Mouse, male a	oor) uideline 453 female				
Not cl <u>Comp</u> Perm Speci Resul Speci Resul 1-Met Speci Applic Resul Indox Speci Applic Expos Frequ Resul Speci	assified based on ava <u>conents:</u> ethrin (ISO): es t hoxy-2-propanol: es cation Route sure time od t cacarb (ISO): es cation Route sure time ency of Treatment t	ailable information. : Rat : negative : Mouse : negative : Rat : inhalation (vap : 2 Years : OECD Test G : negative : Rat, male and : oral (feed) : 2 Years : daily : negative	oor) uideline 453 female				



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Frequ Resu	uency of Treatment It	:	daily negative	
-	oductive toxicity classified based on availa	ıble	information.	
Com	ponents:			
Perm	nethrin (ISO):			
Effec	ts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effec	ts on fetal development	:		ined repeated dose toxicity study with the elopmental toxicity screening test
1-Me	thoxy-2-propanol:			
	ts on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) est Guideline 416
Effec	ts on fetal development	:	Species: Rat	ro-fetal development : inhalation (vapor)
Indo	xacarb (ISO):			
	ts on fertility	:	Test Type: Two-g Species: Rat Application Route General Toxicity F Result: negative	
			General Toxicity I	: Oral Parent: NOAEL: 1,3 mg/kg body weight F1: NOAEL: > 6,7 mg/kg body weight xic effects and adverse effects on the off-
Effec	ts on fetal development	:	Test Type: Develo Species: Rat Developmental To Result: No teratog Test Type: Develo	oxicity: NOAEL: 2 mg/kg body weight genic effects.



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			Species: Rabbi Application Rou Developmental Result: No adve	ute: Oral Toxicity: NOAEL: 500 mg/kg body weight
			Test Type: Dev Species: Rat Application Rou Developmental	
			Test Type: Dev Species: Rat Application Rou Developmental	
	T-single exposure			
•	cause drowsiness or d ponents:	izzine	SS.	
	ethoxy-2-propanol:			
	essment	:	May cause drow	wsiness or dizziness.
Caus	T-repeated exposure ses damage to organs sure.	(Blood	d, Nervous syster	n, Heart) through prolonged or repeated
<u>Com</u>	ponents:			
Targ	xacarb (ISO): et Organs essment	:	Blood, Nervous Causes damag exposure.	system, Heart e to organs through prolonged or repeated
Repe	eated dose toxicity			
Com	ponents:			
Spec NOA Appli		:	Rat 0,2201 mg/l Inhalation 90 Days	
		:	Rat 175 mg/kg Ingestion 90 Days	
Spec NOA		:	Rat 919 mg/kg Ingestion	



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Expos	sure time	: 35 Days	
	EL cation Route sure time	: Rat : 1,1 mg/l : inhalation (vap : 2 y : OECD Test Gu	
		: Rabbit : 1.838 mg/kg : Skin contact : 90 Days	
Speci NOAE LOAE Applic	EL EL cation Route	: Rat, male and : 1,7 mg/kg : 4,1 mg/kg : Oral	female
	sure time et Organs	: 90 d : Blood, Central	nervous system
Expos	EL	: Rat, male and : 50 mg/kg : 500 mg/kg : Dermal : 28 d : Blood	female
Expos	EL	: Rat : 4.6 mg/m3 : 23 mg/m3 : Inhalation : 4 Weeks : Blood, Lungs	
Expo	EL	: Rat, male and : 1 mg/kg : 2 mg/kg : Oral : 1 y : Blood	female
Expos	EL	: Dog : 1 mg/kg : 2 mg/kg : Oral : 1 y : Blood	
	EL	: Mouse : 3 mg/kg : 14 mg/kg : oral (feed) : 18 Months	



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Targe	t Organs	:	Nervous system,	Heart
-	ation toxicity assified based on availa	ıble	information.	
Expe	rience with human exp	osu	ire	
<u>Comp</u>	oonents:			
	racarb (ISO): ral Information	:	No human inform	ation is available.
SECTION	12. ECOLOGICAL INFO	ORN	ATION	
Ecoto	oxicity			
<u>Comp</u>	oonents:			
Perm	ethrin (ISO):			
Toxici	ty to fish	:	LC50 (Lepomis m Exposure time: 90	nacrochirus (Bluegill sunfish)): 0,00079 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): 0,0001 mg/l 8 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): > 1,1 2 h
			EC10 (Pseudokin mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0,002 2 h
M-Fac	ctor (Acute aquatic tox-	:	10.000	
icity) Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 3	io (zebra fish)): 0,00041 mg/l 5 d est Guideline 210
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia i Exposure time: 2 Method: OECD T	
	ctor (Chronic aquatic	:	10.000	
toxicit Toxici	y) ty to microorganisms	:	EC50: > 1.000 m Exposure time: 3	
1-Met	hoxy-2-propanol:			
Toxici	ty to fish	:	LC50 (Leuciscus Exposure time: 90 Method: DIN 384	
Toxici	ty to daphnia and other	:	EC50 (Daphnia m	nagna (Water flea)): 23.300 mg/l



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aquatio	aquatic invertebrates		Exposure time: 48	8 h	
Toxicit plants	Toxicity to algae/aquatic plants		ErC50 (Skeletone Exposure time: 72 Method: ISO 1025		
Toxicit	Toxicity to microorganisms		IC50: > 1.000 mg/ Exposure time: 3 Method: OECD Te	h	
II Indoxa	acarb (ISO):				
	Toxicity to fish		LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
			LC50 (Lepomis m Exposure time: 96 Method: OECD Te		
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 0,6	
			NOEC (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0,46 ? h	
M-Fac icity)	tor (Acute aquatic tox-	:	1		
Toxicit aquati	y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0,09 mg/l d	
ic toxic M-Fac toxicity	tor (Chronic aquatic	:	1		
•• •	tence and degradabili	ity			
Comp	onents:	2			
Perme	ethrin (ISO):				
	gradability	:	Result: Not readily Method: OECD Te	/ biodegradable. est Guideline 301F	
1-Meth	noxy-2-propanol:				
Biodeg	gradability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: OECD Te	96 %	



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Bioad	cumulative potential			
<u>Com</u>	oonents:			
Perm	ethrin (ISO):			
Bioac	Bioaccumulation		Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 570	
	Partition coefficient: n- octanol/water		log Pow: 4,67	
1-Met	hoxy-2-propanol:			
	Partition coefficient: n- octanol/water		log Pow: < 1	
Indox	acarb (ISO):			
	Partition coefficient: n- octanol/water		log Pow: 4,65	
Mobil	lity in soil			
Com	oonents:			
Indox	acarb (ISO):			
	oution among environ- al compartments	:	log Koc: 3,9	
••	r adverse effects ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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



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IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		 UN 3092 1-Methoxy-2-prop 3 III Flammable Liquid 366 355	
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		 =	ROPANOL SOLUTION), Indoxacarb (ISO))

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

Not applicable for product as supplied.

Domestic regulation

AN	TΤ	-
LINI	 .	um h

:	UN 3092
:	1-METHOXY-2-PROPANOL, SOLUTION
:	3
:	III
:	3
:	30
	:

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 - (LINACH) : Not applicable Brazil. List of chemicals controlled by the Federal Police : Not applicable The ingredients of this product are reported in the following inventories: AICS : not determined

DSL	:	not determined
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IECS	IECSC		not determined	
SECTION	I 16. OTHER INFORMA	τιοι	N	
-	Revision Date Date format		28.09.2024 dd.mm.yyyy	
Furt	ner information			
comp	ces of key data used to bile the Material Safety Sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
	s where changes have b ment by two vertical line		made to the previo	ous version are highlighted in the body of this
	text of other abbreviat	ons		
ACG		•		eshold Limit Values (TLV)
	IH / TWA IH / STEL	:	8-hour, time-weig Short-term expos	
Land Carc Stan x% r ENC x% g tem; - Inte Equip centr cal S Mariti ganis centr Letha n.o.s Cond Load Zeala ment lative es; (1907 Auth ture; tion	of Brazil; ASTM - Ame inogen, Mutagen or Re dardisation; DSL - Dome esponse; ELx - Loadin S - Existing and New C prowth rate response; EF GLP - Good Laboratory ernational Air Transport oment of Ships carrying ration; ICAO - Internation Substances in China; IM ime Organization; ISHL sation for Standardization ration to 50 % of a test al Dose); MARPOL - Ir Not Otherwise Speci centration; NO(A)EL - N ing Rate; NOM - Officia and Inventory of Chemic ; OPPTS - Office of Che and Toxic substance; I (Q)SAR - (Quantitative /2006 of the European F orisation and Restriction SDS - Safety Data She of Dangerous Goods; T ces Control Act (United	rical epro gran Chen Prasher P	n Society for the T ductive Toxicant; Substances List (f te associated with hical Substances (Emergency Respi- ctice; IARC - Interr sociation; IBC - ngerous Chemical: Civil Aviation Orgar - International Ma dustrial Safety and ECI - Korea Exist alation; LD50 - Let ational Convention Nch - Chilean No oserved (Adverse) exican Norm; NTP OECD - Organiza al Safety and Pollu CS - Philippines Inv ructure Activity R ament and of the C Chemicals; SADT CSI - Taiwan Chel - Thailand Existi tes); UN - United Dangerous Goods;	s; ANTT - National Agency for Transport by resting of Materials; bw - Body weight; CMR - DIN - Standard of the German Institute for Canada); ECx - Concentration associated with x% response; EmS - Emergency Schedule; Japan); ErCx - Concentration associated with onse Guide; GHS - Globally Harmonized Sys- national Agency for Research on Cancer; IATA International Code for the Construction and s in Bulk; IC50 - Half maximal inhibitory con- nization; IECSC - Inventory of Existing Chemi- iritime Dangerous Goods; IMO - International Or- ing Chemicals Inventory; LC50 - Lethal Con- hal Dose to 50% of a test population (Median n for the Prevention of Pollution from Ships; rm; NO(A)EC - No Observed (Adverse) Effect Effect Level; NOELR - No Observable Effect - National Toxicology Program; NZIoC - New tion for Economic Co-operation and Develop- tion Prevention; PBT - Persistent, Bioaccumu- ventory of Chemicals and Chemical Substanc- Relationship; REACH - Regulation (EC) No council concerning the Registration, Evaluation, - Self-Accelerating Decomposition Tempera- mical Substance Inventory; TDG - Transporta- ng Chemicals Inventory; TSCA - Toxic Sub- Nations; UNRTDG - United Nations Recom- vPvB - Very Persistent and Very Bioaccumu- ormation System



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