



Vers 2.6	sion	Revision Date: 06.04.2024		S Number: 15158-00008	Date of last issue: 03.11.2023 Date of first issue: 10.11.2021	
SEC	TION 1 Produc	: IDENTIFICATION t name	:	Deltamethrin (1.0	5%) Formulation	
	Manufa	acturer or supplier's d	letai	ls		
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)	
	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia		
	Telepho	one	:	1 800 033 461		
	Emerge	ency telephone number	·:	Poisons Informat	ion Centre: Phone 13 11 26	
	E-mail	address	:	EHSDATASTEW	ARD@msd.com	
	Recom	mended use of the ch	nemi	cal and restriction	ons on use	
		mended use tions on use	:	Veterinary produce Not applicable	ct	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system, Immune system)
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 2 (Central nervous system)
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	 H317 May cause an allergic skin reaction. H373 May cause damage to organs (Central nervous system, Immune system) through prolonged or repeated exposure if swallowed. H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.





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Preca	utionary statements	· Prevention:	
			eathe mist or vapours. hated work clothing should not be allowed out of tective gloves.
		P314 Get medi P333 + P313 If vice/ attention.	F ON SKIN: Wash with plenty of water. cal advice/ attention if you feel unwell. skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it before
		Disposal:	
		P501 Dispose o disposal plant.	of contents/ container to an approved waste
Othe	r hazards which do n	ot result in classificat	tion
Cutar		occur, such as burning	or stinging on the face and mucosae. Howev-

er, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
deltamethrin (ISO)	52918-63-5	>= 1 -< 3

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	: If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention.





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			Rinse mouth thor	oughly with water.				
Most	important symptoms	:	May cause an all	ergic skin reaction.				
and e	and effects, both acute and delayed		May cause damage to organs through prolonged or repea exposure if swallowed.					
				ge to organs through prolonged or repeated				
				t can cause mechanical irritation or drying of				
				the eyes can lead to mechanical irritation. tains a pyrethroid.				
				ning should not be confused with carbamate				
Prote	ction of first-aiders	:	First Aid respond and use the reco	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).				
Notes	to physician	:		ically and supportively.				
SECTION	5. FIREFIGHTING MEA	\ SU	RES					
Suital	ole extinguishing media	÷	Water sprav					

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Bromine compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters Hazchem Code	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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.





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2.6		06.04.2024 Is and materials for ment and cleaning up	:	Local authorities a cannot be contain Soak up with iner Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att For large spills, pi ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the comine which regula	should be advised if significant spillages ned. t absorbent material. f dust in the air (i.e., clearing dust surfaces
				certain local or na	ational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	 If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. 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
	Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. 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.



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	litions for safe storage rials to avoid	engineering cor appropriate deg industrial hygier use of administr Keep in property Store in accord	y labelled containers. ance with the particular national regulations. h the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further informa	ation: DSEN, Sk	in	
		Wipe limit	100 µg/100 cm²	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo-

Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the





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			posable suits) to a Use appropriate of contaminated clot	0
	9. PHYSICAL AND CHI	EMIC		S
	arance	:	liquid	
Colou		:	Colorless to pale	
Odoui		:	No data available	
	r Threshold	•	No data available	
рН		:	No data available	9
Meltin	g point/freezing point	:	No data available	9
Initial range	boiling point and boiling	:	> 150 °C	
Flash	point	:	> 93 °C	
Evapo	pration rate	:	No data available	e
Flamn	nability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- eans.
Flamn	nability (liquids)	:	: Ignitable (see flash point)	
	r explosion limit / Upper ability limit	:	No data available	9
	r explosion limit / Lower ability limit	:	No data available	9
Vapou	ur pressure	:	No data available	9
Relati	ve vapour density	:	: No data available	
Relati	ve density	:	0.945 - 0.955 (20) °C)
Densi	ty	:	No data available	9
	ility(ies) ater solubility	:	No data available	9
	on coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data available	e





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Decomposition temperature	: No data available
Viscosity Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: No data available
Particle characteristics Particle 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. Vapours may form explosive mixture with air. May form explosive dust-air mixture during processing, ha dling or other means. Can react with strong oxidizing agents. 	าก-
Conditions to avoid	 Heat, flames and sparks. Avoid dust formation. 	
Incompatible materials	Oxidizing agents	
Hazardous decomposition products	No hazardous decomposition products are known.	

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 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



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<u>Com</u>	oonents:			
delta	methrin (ISO):			
	e oral toxicity	:	LD50 (Rat): 66.7	mg/kg
			LD50 (Rat): 9 - 13	39 mg/kg
			LD50 (Mouse): 19) - 34 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:	ĥ
Acute	e dermal toxicity	:	LD50 (Rabbit): 2,0	000 mg/kg
			LD50 (Rat): > 800) mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 2.5 m Application Route	
			LD50 (Mouse): 10) mg/kg
Olein			Application Route	: Intraperitoneal
Not c	corrosion/irritation lassified based on availa ponents:	ble		: Intraperitoneal
Not cl	lassified based on availa	ble		: Intraperitoneal
Not cl	lassified based on availa ponents: methrin (ISO): les	ble :		: Intraperitoneal
Not cl Comp delta Speci Resul	lassified based on availa ponents: methrin (ISO): les lt	:	information. Rabbit No skin irritation	: Intraperitoneal
Not cl <u>Comp</u> delta Speci Resul Serio	lassified based on availa ponents: methrin (ISO): les lt us eye damage/eye irri	: : tati	information. Rabbit No skin irritation on	: Intraperitoneal
Not cl Comp delta Speci Resul Serio Not cl	lassified based on availa <u>ponents:</u> methrin (ISO): les It pus eye damage/eye irri lassified based on availa	: : tati	information. Rabbit No skin irritation on	: Intraperitoneal
Not cl Comp delta Speci Resul Serio Not cl Comp	lassified based on availa <u>ponents:</u> methrin (ISO): les lt us eye damage/eye irri lassified based on availa <u>ponents:</u>	: : tati	information. Rabbit No skin irritation on	: Intraperitoneal
Not cl Comp delta Speci Resul Serio Not cl <u>Comp</u>	lassified based on availa <u>ponents:</u> methrin (ISO): les lt us eye damage/eye irri lassified based on availa <u>ponents:</u> methrin (ISO):	: : tati	information. Rabbit No skin irritation on	: Intraperitoneal
Not cl Com delta Speci Resul Serio Not cl <u>Com</u> delta	lassified based on availa <u>conents:</u> methrin (ISO): les lt us eye damage/eye irri lassified based on availa <u>conents:</u> methrin (ISO): les	: : tati	information. Rabbit No skin irritation on information.	
Not cl Com delta Speci Resul Serio Not cl Com delta Speci Resul	lassified based on availa <u>conents:</u> methrin (ISO): les lt us eye damage/eye irri lassified based on availa <u>conents:</u> methrin (ISO): les	tati	information. Rabbit No skin irritation on information. Rabbit Moderate eye irrit	
Not cl Comp delta Speci Resul Serio Not cl Comp delta Speci Resul Resp Skin	lassified based on availa <u>ponents:</u> methrin (ISO): les It lassified based on availa <u>ponents:</u> methrin (ISO): les It	tati ble	information. Rabbit No skin irritation on information. Rabbit Moderate eye irrit	



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Com	ponents:			
delta	methrin (ISO):			
Test Expo Spec Resu	sure routes ies	: : :	Maximisation Tes Dermal Guinea pig negative	it
Test Expo Spec Resu	sure routes ies	:	Human repeat insult patch test (HRIPT) Dermal Humans positive	
Chro	nic toxicity			
	n cell mutagenicity lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
delta	methrin (ISO):			
Genc	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA F Test system: Esc Result: negative	
				nosomal aberration nese hamster ovary cells
				o mammalian cell gene mutation test nese hamster lung cells DAEL: 20 mg/kg
Geno	otoxicity in vivo	:	Test Type: Micror Species: Mouse Application Route Result: negative	
			Test Type: domin Species: Mouse Application Route Result: negative	
			Test Type: sister Species: Mouse Cell type: Bone m Application Route Result: negative	





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Deltamethrin (1.05%) Formulation

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Carcinogenicity

Not classified based on available information.

Components:

deltamethrin (ISO):

	Mouse, male and female oral (feed) 104 weeks 8 mg/kg body weight 4 mg/kg body weight positive Lymph nodes
:	Rat, male and female oral (feed) 2 Years negative
::	Dog, male and female oral (feed) 2 Years 1 mg/kg body weight negative
	: : : : : : : : : : : : : : : : : : : :

Reproductive toxicity

Not classified based on available information.

Components:

deltamethrin (ISO):	
Effects on fertility	 Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: oral (feed) Early Embryonic Development: NOAEL: 50 mg/kg body weight Symptoms: No effects on fertility, Embryo-foetal toxicity Remarks: Significant toxicity observed in testing Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: LOAEL: 84 - 149 mg/kg body weight Symptoms: No effects on fertility, Embryo-foetal toxicity Test Type: Fertility Species: Rat, male Application Route: Oral Fertility: LOAEL: 1 mg/kg body weight Symptoms: Effects on fertility



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		Target	Organs: Te	stes
Effects on foetal develop- : ment		Species Applica Develo Result:	pmental To: Skeletal ma	pment oral (gavage) xicity: LOAEL: 1 mg/kg body weight alformations I toxicity observed.
		Species Develop		
		Species Applica Develop	pmental To:	
Repro sessr	oductive toxicity - As- ment			adverse effects on sexual function and development, based on animal experiments
STO	Γ - single exposure			
	lassified based on avai	able informat	ion.	
	ponents:			
	methrin (ISO): ssment	· May ca	uso rospira	tory irritation.
A336	SSILEIR	. May ca	use respira	
May o repea May o	ated exposure if swallow cause damage to orgar	ved.		m, Immune system) through prolonged or m) through prolonged or repeated exposure
if inha Com i	ponents:			
	methrin (ISO):			
Expo Targe	sure routes et Organs ssment		nervous sy damage to	rstem, Immune system o organs through prolonged or repeated
Exposure routes : Target Organs : Assessment :		: Central		





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Com	eated dose toxicity ponents: methrin (ISO): ies	: Rat, male and f	emale
NOA LOAI Appli Expo Targe	EL	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous system hyperexcitability 	ì
Expo		: Rat : 3 mg/m3 : inhalation (dust : 2 wk / 5 d/wk / 6 : Local irritation, i	
Expo Targe	EL	 Dog 0.1 mg/kg 1 mg/kg Oral 13 Weeks Nervous system Dilatation of the tion 	n pupil, Vomiting, Tremors, Diarrhoea, Saliva-
Expo	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system	1
Expo Targe		: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune system : immune system	
-	ration toxicity classified based on ava	ailable information.	
Expe	rience with human e	xposure	
<u>Com</u>	ponents:		

deltamethrin (ISO):

Inhalation

Symptoms: respiratory tract irritation, Dizziness, Sweating, Headache, Nausea, Vomiting, anorexia, Fatigue, tingling, Palpitation, Blurred vision, muscle twitching

:





ersion S	Revision Date: 06.04.2024		0S Number: 215158-00008	Date of last issue: 03.11.2023 Date of first issue: 10.11.2021	
Skin contact Ingestion		 Symptoms: Skin irritation, Erythema, pruritis, Headache, Nausea, Vomiting, Dizziness, tingling, Sweating, muscle twitching Blurred vision, Fatigue, anorexia, Allergic reactions Symptoms: muscle pain, Small pupils 			
CTION	12. ECOLOGICAL INFO	OR	IATION		
Ecoto	oxicity				
	ponents:				
	methrin (ISO): ity to fish	:	mg/l Exposure time: 9	on variegatus (sheepshead minnow)): 0.000 96 h chus mykiss (rainbow trout)): 0.00039 mg/l	
	ity to daphnia and other tic invertebrates	:	Exposure time: 9 EC50 (Mysidops Exposure time: 4	is bahia (opossum shrimp)): 0.0037 μg/l	
			EC50 (Daphnia r Exposure time: 4	magna (Water flea)): 0.0035 mg/l 8 h	
			LC50 (Gammaru Exposure time: 9	is fasciatus (freshwater shrimp)): 0.0003 μg i6 h	
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD	rchneriella subcapitata (green algae)): > 9.1 2 h Fest Guideline 201 Ficity at the limit of solubility	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimepha mg/l Exposure time: 3	lles promelas (fathead minnow)): 0.000022 6 d	
			NOEC (Pimepha mg/l Exposure time: 2	les promelas (fathead minnow)): 0.000017	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.0041 µg/l 1 d	
Persi	stence and degradabil	ity			
<u>Com</u>	ponents:				
	methrin (ISO): lity in water	:	Hydrolysis: 0 %(30 d)	





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Bioa	ccumulative potential			
<u>Com</u>	ponents:			
	amethrin (ISO): ccumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,800
	Partition coefficient: n- octanol/water		log Pow: 4.6	
Mob	ility in soil			
<u>Com</u>	ponents:			
Distr	amethrin (ISO): ibution among environ- tal compartments	:	log Koc: 7.2	
	er adverse effects ata available			
SECTION	I 13. DISPOSAL CONSI	DEF	RATIONS	
Disp	osal methods			
Wast	te from residues	:	•	^f waste into sewer. ordance with local regulations.
Cont	aminated packaging	:	Empty containers dling site for recy	should be taken to an approved waste han-

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (deltamethrin (ISO))
Class Decking group	:	9 III
Packing group Labels	÷	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (deltamethrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964





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F	ger airc	g instruction (passen-	:	964 yes	
l F			:	UN 3082 ENVIRONMENTA N.O.S. (deltamethrin (ISC	ALLY HAZARDOUS SUBSTANCE, LIQUID,
F L E	Labels EmS C	g group ode pollutant	:	9 III 9 F-A, S-F yes	
	-	oort in bulk according			OL 73/78 and the IBC Code
1	Nation	al Regulations			
ĺ	ADG UN nur Proper	nber shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (deltamethrin (IS	ALLY HAZARDOUS SUBSTANCE, LIQUID,
F L H	Labels Hazche	g group em Code nmentally hazardous	: : : : : : : : : : : : : : : : : : : :	9 III 9 •3Z yes	0))
ר נ	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 var- iations in regional or country regulations.				

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Therapeutic Goods (Poisons Standard) Instrument	:	Schedule 6 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might
		apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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



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SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System





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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless 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.

AU / EN