

Version 5.0	Revision Date: 28.09.2024		S Number: 7079-00022	Date of last issue: 03.11.2023 Date of first issue: 02.05.2016
SECTION	1. IDENTIFICATION			
Produ	uct identifier	:	Deltamethrin Po	ur-On Formulation
Manu	facturer or supplier's	s deta	ils	
Comp	bany	:	MSD	
Addre	ess	:	Rua Coronel Be Cruzeiro - Sao F	nto Soares, 530 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 restricti	ons on use
	mmended use ictions on use	:	Veterinary produ Not applicable	uct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accord Skin sensitization	dan	ce with ABNT NBR 14725 Standard Category 1			
Short-term (acute) aquatic hazard	•	Calegory			
Long-term (chronic) aquatic hazard	:	Category 1			
GHS label elements in accordance with ABNT NBR 14725 Standard					

Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention: P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves.



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		P333 + P313 vice/ attention	Take off contaminated clothing and wash it before

Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Deltamethrin (ISO)	52918-63-5	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 3 Eye Irrit., 2A Skin Sens., 1A Repr., 2 STOT SE, 3 STOT RE, (Oral)(Central nervous system, Immune sys- tem), 1 STOT RE, (Inhala- tion)(Central nervous system), 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 0,25 -< 1

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	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting.



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and del Pro	est important symptoms d effects, both acute and ayed otection of first-aiders tes to physician	:	This product conta Pyrethroid poison or organophospha First Aid responde and use the recor when the potentia	bughly with water. ergic skin reaction. ains a pyrethroid. ing should not be confused with carbamate
SECTIO	ON 5. FIRE-FIGHTING ME	ASL	JRES	
Su	itable extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	suitable extinguishing edia	:	None known.	
	ecific hazards during fire nting	:	Exposure to comb	pustion products may be a hazard to health.
Ha uct	zardous combustion prod- s	:	Carbon oxides	
Sp od:	ecific extinguishing meth- s	:	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
	ecial protective equipment fire-fighters	:		e, wear self-contained breathing apparatus. ective equipment.
SECTIO	ON 6. ACCIDENTAL RELE	AS	E MEASURES	
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	:		ective equipment. ing advice (see section 7) and personal ent 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	:	Soak up with inert absorbent material.



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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 the 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 CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	
5		Avoid breathing mist or vapors.
		Do not swallow.
		Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure assessment
		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.
		The effective operation of a facility should include review of
		engineering controls, proper personal protective equipment,
		appropriate degowning and decontamination procedures,
		industrial hygiene monitoring, medical surveillance and the
		use of administrative controls.
Conditions for safe storage	:	Keep in properly labeled containers.
		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types:
		Strong oxidizing agents
		Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further information: DSEN, Skin			



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U			Wipe limit 100 µg/100 cm² Internal			
Engi	Engineering measures		Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- ess 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 containment devices). Winimize open handling.			
Pers	onal protective equip	nent				
Fi	Respiratory protection Filter type Hand protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type			
Μ	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			
Skin	Skin and body protection :		aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the ask being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Aqueous solution, suspension
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available

SAFETY DATA SHEET



Deltamethrin Pour-On Formulation

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	Evapor	ation rate	:	No data available	3
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available)
	Vapor p	pressure	:	No data available	9
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	completely miscil	ble
	Partition octanol	n coefficient: n-	:	No data available)
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty :osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

:	Not classified as a reactivity hazard.
:	Stable under normal conditions.
:	Can react with strong oxidizing agents.
:	None known.
:	Oxidizing agents
	No hazardous decomposition products are known.
	:



rsion)	Revision Date: 28.09.2024		9S Number: 7079-00022	Date of last issue: 03.11.2023 Date of first issue: 02.05.2016
CTION	11. TOXICOLOGICAL I	NF		
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on availa	ble	information.	
Produ	uct:			
Acute	oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5.000 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist
<u>Comp</u>	oonents:			
Delta	methrin (ISO):			
Acute oral toxicity	:	LD50 (Rat): 66	.7 mg/kg	
			LD50 (Rat): 9 -	139 mg/kg
			LD50 (Mouse):	19 - 34 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0,8 Exposure time: Test atmosphe	2 h
Acute	dermal toxicity	:	LD50 (Rabbit):	2.000 mg/kg
			LD50 (Rat): > 8	800 mg/kg
	toxicity (other routes of histration)	:		i mg/kg ute: Intravenous
			LD50 (Mouse): Application Rou	10 mg/kg ute: Intraperitoneal
	corrosion/irritation assified based on availa	ble	information.	
<u>Com</u>	oonents:			
Delta	methrin (ISO):			
Speci	es		Rabbit	

Species Result	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.



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Com	ponents:			
	methrin (ISO):			
Speci Resu		:	Rabbit Moderate eye irrit	ation
Resp	iratory or skin sensi	tizatio	n	
-	sensitization cause an allergic skin	reactic	on.	
-	iratory sensitization lassified based on ava	ailable	information.	
Com	ponents:			
Delta	methrin (ISO):			
Test Route Speci Resu	es of exposure ies	:	Maximization Tes Dermal Guinea pig negative	t
Test Route Speci Resu	es of exposure ies	:	Human repeat ins Dermal Humans positive	sult patch test (HRIPT)
	n cell mutagenicity lassified based on ava	vilabla	information	
_	ponents:		inionnation.	
Delta	methrin (ISO):			
	toxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA F Test system: Escl Result: negative	
				nosomal aberration nese hamster ovary cells
				o mammalian cell gene mutation test nese hamster lung cells DAEL: 20 mg/kg
Geno	toxicity in vivo	:	Test Type: Micror Species: Mouse Application Route Result: negative	
I			Test Type: domin	ant lethal test



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		Species: Mouse Application Rout Result: negative	e: Oral
		Test Type: sister Species: Mouse Cell type: Bone r Application Rout Result: negative	
Carc	inogenicity		
Not c	lassified based on avail	able information.	
Com	ponents:		
	methrin (ISO):		
Spec Appli	ies cation Route	: Mouse, male and : oral (feed)	d female
Expo	sure time	: 104 weeks	
NOA LOAE		: 8 mg/kg body we : 4 mg/kg body we	
Resu		: positive	
Targe	et Organs	: Lymph nodes	
Spec		: Rat, male and fe	male
	cation Route sure time	: oral (feed) : 2 Years	
Resu		: negative	
Spec	ies	: Dog, male and fe	emale
Appli	cation Route	: oral (feed)	
Expo	sure time ⊏	: 2 Years	sight
Resu	L lt	: 1 mg/kg body we : negative	sign.
-	oductive toxicity lassified based on avail	able information	
	ponents:		
	methrin (ISO): ts on fertility	· Tost Type: Three	e-generation reproduction toxicity study
Ellec	is on tertility	Species: Rat	e-generation reproduction toxicity study
		Application Rout	
		Early Embryonic weight	Development: NOAEL: 50 mg/kg body
		Symptoms: No e	ffects on fertility., Embryo-fetal toxicity.
		Remarks: Signifi	cant toxicity observed in testing
			generation reproduction toxicity study
		Species: Rat	e. Oral
		Application Rout Early Embryonic	Development: LOAEL: 84 - 149 mg/kg body
		weight	



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II			Symptoms: No ef	fects on fertility., Embryo-fetal toxicity.
			Test Type: Fertilit Species: Rat, ma Application Route Fertility: LOAEL: Symptoms: Effect Target Organs: T	le e: Oral 1 mg/kg body weight ts on fertility.
Effect	s on fetal development	:	Result: Skeletal n	e: oral (gavage) oxicity: LOAEL: 1 mg/kg body weight
				female
Repro sessm	oductive toxicity - As- nent	:		f adverse effects on sexual function and development, based on animal experiments
	-single exposure assified based on availa	hla	information	
_	oonents:		intornation.	
Delta	methrin (ISO):			
Asses	• •	:	May cause respir	atory irritation.
STOT	-repeated exposure			
Not cl	assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
	methrin (ISO):			
Targe	s of exposure t Organs ssment	:		system, Immune system to organs through prolonged or repeated
Targe	es of exposure t Organs esment	:	inhalation (dust/m Central nervous s Causes damage exposure.	

SAFETY DATA SHEET



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Repe	ated dose toxicity		
<u>Com</u>	oonents:		
Delta	methrin (ISO):		
Speci NOAE LOAE Applic Expos	es EL cation Route sure time et Organs	: Rat, male and f : 1 mg/kg : 2,5 mg/kg : Oral : 13 Weeks : Nervous system : hyperexcitability	n
Speci LOAE Applic Expos Symp	EL cation Route sure time	: Rat : 3 mg/m3 : inhalation (dust : 2 wk / 5 d/wk / : Local irritation,	
Expos	EL EL cation Route sure time et Organs	: Dog : 0,1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous system : Dilatation of the	n 9 pupil, Vomiting, Tremors, Diarrhea, Salivation
Expo	ΞL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous systen	n
Expos	EL cation Route sure time et Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune systen : immune systen	
Not c	ration toxicity lassified based on avai		
-	rience with human ex	posure	
	<u>ponents:</u>		
Delta Inhala	methrin (ISO): ation	Headache, Nau	piratory tract irritation, Dizziness, Sweating, isea, Vomiting, anorexia, Fatigue, tingling,
Skin o	contact	: Symptoms: Ski sea, Vomiting,	rred vision, muscle twitching n irritation, Erythema, pruritis, Headache, Nau- Dizziness, tingling, Sweating, muscle twitching, Fatigue, anorexia, Allergic reactions





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Inges	Ingestion		: Symptoms: muscle pain, Small pupils				
SECTION	12. ECOLOGICAL INFO	ORN	IATION				
Ecoto	oxicity						
Com	oonents:						
Delta	methrin (ISO):						
Toxic	ity to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96	n variegatus (sheepshead minnow)): 0,0004 6 h			
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0,00039 mg/l δ h			
	ity to daphnia and other ic invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0,0037 μg/l 3 h			
			EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0,0035 mg/l 3 h			
			LC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0,0003 μg/l δ h			
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T				
	ctor (Acute aquatic tox-	:	1.000.000				
icity) Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal mg/l Exposure time: 36	es promelas (fathead minnow)): 0,000022 6 d			
			NOEC (Pimephal mg/l Exposure time: 20	es promelas (fathead minnow)): 0,000017 60 d			
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia i Exposure time: 2 ⁻	magna (Water flea)): 0,0041 μg/l 1 d			
ic toxi M-Fac toxicit	ctor (Chronic aquatic	:	1.000.000				
Persi	stence and degradabil	ity					
<u>Com</u>	oonents:						
	methrin (ISO): ity in water	:	Hydrolysis: 0 %(3	0 d)			



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Bioad	ccumulative potential			
<u>Com</u>	ponents:			
Delta	methrin (ISO):			
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1.800
	ion coefficient: n- ol/water	:	log Pow: 4,6	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Distril	methrin (ISO): bution among environ- al compartments	:	log Koc: 7,2	
	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.
		If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (deltamethrin (ISO))
Class	:	9
Packing group	:	III
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 aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964



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	nmentally hazardous	:	yes	
IMDG- UN nu Proper		:	UN 3082 ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class Packir Labels	ng group	:	(Deltamethrin (IS) 9 III 9	0))
EmS C		:	F-A, S-F yes	
	port in bulk according	-		OL 73/78 and the IBC Code

Domestic regulation

ANTT UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (deltamethrin (ISO))
Class	:	9
Packing group	:	
Labels	:	9
Hazard Identification Number	:	90

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
IECSC	:	not determined

SECTION 16. OTHER INFORMATION

Revision	Date
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Date f	ormat	:	dd.mm.yyyy	
Further information Sources of key data used to compile the Material Safety Data Sheet		:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

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

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.



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