

Vers 12.0		Revision Date: 06.07.2024	-	S Number: 78-00030		sue: 06.04.2024 sue: 22.10.2014
_						
Sect	tion 1: I	dentification				
	Produc	t name	:	Fenbendazole (2	0%) Solid Form	nulation
	Manufa	acturer or supplier's d	etai	ls		
	Compa	iny	:	MSD		
	Addres	S	:	33 Whakatiki Stre Upper Hutt - New		g 908
	Teleph	one	:	0800 800 543		
	Emerge	ency telephone number	:	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800
	E-mail	address	:	EHSDATASTEW	/ARD@msd.cor	n
	Recom	mended use of the ch	nem	ical and restriction	ons on use	
		mended use tions on use	:	Veterinary produ	ct	
Sect	tion 2: I	Hazard identification				
	GHS C	lassification				
		luctive toxicity	:	Category 2		
		c target organ toxicity - ed exposure (Oral)	:	Category 2 (Live	r, Stomach, Ner	rvous system, Lymph nodes)
		lous to the aquatic ment - acute hazard	:	Category 1		
		lous to the aquatic ament - chronic hazard	:	Category 1		
	GHS la	ibel elements				
	Hazard	l pictograms	:		¥_2	
	Signal	word	:	Warning	\checkmark	

Hazard statements

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H373 May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated expo-



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		sure if swallov H410 Very to:	wed. xic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not and understo P273 Avoid re	elease to the environment. rotective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 attention. P391 Collect	IF exposed or concerned: Get medical advice/ spillage.
		Storage: P405 Store Ic	ocked up.
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste t.
Dust	contact with the eyes	not result in classific can lead to mechanica e mechanical irritation	al 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)
Calcium carbonate	471-34-1	>= 20 -< 30
Starch	9005-25-8	>= 20 -< 30
fenbendazole	43210-67-9	>= 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. 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.



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If sw Most and d delay Prote	se of eye contact allowed important symptoms effects, both acute and yed ection of first-aiders s to physician	: If G G R C W C H C F i an W	in eyes, rinse we et medical atten swallowed, DO et medical atten inse mouth thoro uspected of dam aborn child. lay cause damage contact with dust e skin. ust contact with irst Aid responden d use the recorn hen the potentia	tion if irritation develops and persists. NOT induce vomiting. tion. bughly with water. haging fertility. Suspected of damaging the ge to organs through prolonged or repeated
Section	5: Fire-fighting measure	3		
	able extinguishing media	A C D	/ater spray lcohol-resistant f arbon dioxide (C ry chemical one known.	
medi	a			
fighti				pustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	N S	arbon oxides itrogen oxides (f ulphur oxides letal oxides	NOx)
Spec ods	tific extinguishing meth-	cu U R so	umstances and t se water spray t emove undamag	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
for fi	cial protective equipment refighters chem Code	: In	the event of fire se personal prot	e, wear self-contained breathing apparatus. ective equipment.
Section 6	b: Accidental release me	easure	S	
Pers	onal precautions, protec-	: U	se personal prot	ective equipment.

tive equipment and emer- gency procedures	•	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. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages



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				cannot be contair	ned.
	ethods and r	naterials for nd cleaning up	:	tainer for disposa Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the of mine which regula Sections 13 and	f dust in the air (i.e., clearing dust surfaces
Sectio	on 7: Handlin	ng and storage			
Lo	echnical mea ocal/Total ver dvice on safe	ntilation	:	causing an explos Provide adequate and bonding, or in Use only with ade Do not breathe du Do not swallow. Avoid contact with Avoid prolonged of Handle in accorda practice, based of sessment Minimize dust gen Keep container cl Keep away from h Take precautiona	e precautions, such as electrical grounding nert atmospheres. equate ventilation. ust, fume, gas, mist, vapours or spray.
Η	ygiene meas	ures	:	If exposure to che flushing systems place. When using do no Wash contaminat The effective ope engineering contr appropriate dego	emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. red clothing before re-use. ration of a facility should include review of rols, proper personal protective equipment, whing and decontamination procedures, e monitoring, medical surveillance and the tive controls
C	onditions for	safe storage	:	Keep in properly I Store locked up.	abelled containers.
М	aterials to av	void	:		nce with the particular national regulations. the following product types: agents



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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		
Calcium carbonate		471-34-1	WES-TWA	10 mg/m3 (Calcium car- bonate)	NZ OEL		
Starch		9005-25-8	WES-TWA	10 mg/m3	NZ OEL		
			TWA	10 mg/m3	ACGIH		
fenbendazole		43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal		
Engineering measures	:	compound. All engineerin design and op	g controls shoul	trols to minimize expo d be implemented by dance with GMP princ d the environment.	facility		
Personal protective equipm	ent						
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.					
Filter type Hand protection	:	Particulates type					
Material	:	Chemical-resi	stant gloves				
Eye protection	:	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	:		or laboratory co	at.			

Section 9: Physical and chemical properties

Appearance	: granules	
Colour	: light yellow	
Odour	: odourless	
Odour Threshold	: No data available	
рН	: 6-8	
Melting point/freezing point	: No data available	

SAFETY DATA SHEET

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	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	No data available	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio	n coefficient: n-	:	No data available	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Ovidizir	ng properties		The substance or	mixture is not classified as oxidizing.
		lar weight		No data available	-
		m ignition energy		> 500 mJ	
		characteristics	•	~ JUU IIIJ	
	Particle		:	No data available	





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Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	lot classified as a reacti Stable under normal con May form explosive dust- lling or other means. Can react with strong oxi	ditions. air mixture during processing, han-
Conditions to avoid Incompatible materials Hazardous decomposition	leat, flames and sparks. woid dust formation. Oxidizing agents	sition products are known.
products		

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact
	Ingestion
	Eye contact

Acute toxicity

Not classified based on available information.

Components:

Calcium carbonate:	
Acute oral toxicity :	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity :	LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity :	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Starch:	
Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity :	LD50 (Rabbit): > 2,000 mg/kg
fenbendazole:	
Acute oral toxicity :	LD50 (Rat): > 10,000 mg/kg



Method



Fenbendazole (20%) Solid Formulation

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		LD50 (Mouse	e): > 10,000 mg/kg
<u>Okin</u>	corrosion/irritation		
	lassified based on ava	ailable information.	
Com	oonents:		
	um carbonate:		
Speci		: Rabbit	
Metho	bd	: OECD Test C	
Resul	lt	: No skin irritat	ion
fenbe	endazole:		
Speci		: Rabbit	
Resul	lt	: No skin irritat	ion
Sorio	us eye damage/eye	irritation	
	lassified based on ava		
	oonents:		
	um carbonate:		
Speci		: Rabbit	
Resul		: No eye irritati	on
Metho	bd	: OECD Test G	Guideline 405
Starc	h.		
Speci		: Rabbit	
Resul		: No eye irritati	on
fonha	endazole:		
Speci		: Rabbit	
Resul		: No eye irritati	on
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
-	lassified based on ava	ailable information.	
Resp	iratory sensitisation		
-	lassified based on ava		
<u>Com</u>	oonents:		
Calci	um carbonate:		
Test			node assay (LLNA)
	sure routes	: Skin contact	
Speci Metho		: Mouse	wideline 400

: OECD Test Guideline 429



Versi 12.0	ion	Revision Date: 06.07.2024	-	0S Number: 678-00030	Date of last issue: 06.04.2024 Date of first issue: 22.10.2014
	Result		:	negative	
	rtooun		•	nogativo	
-	Starch: Test Ty Exposu Species Result	pe re routes	:	Maximisation Tes Skin contact Guinea pig negative	t
	Chroni	c toxicity			
	Germ c	ell mutagenicity			
	Not clas	ssified based on availa	able	information.	
	<u>Compo</u>				
		n carbonate: xicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	rial reverse mutation assay (AMES) est Guideline 471
				Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
				Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476
	Starch: Genoto	xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
f	fenben	dazole:			
1	Genoto	xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: DNA F Result: negative	Repair
				Test Type: Chrom Result: negative	nosomal aberration
					o assay ise lymphoma cells on: Metabolic activation
	_				

Carcinogenicity

Not classified based on available information.



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<u>Com</u>	ponents:			
fenbe	endazole:			
	cation Route sure time EL	: or : 2 : 40	ouse al (feed) Years 05 mg/kg boo egative	dy weight
Expos NOAE Resu	cation Route sure time EL	: 2 : 5 : ne	at ral Years mg/kg body egative vmph nodes,	-
•	oductive toxicity			
-		lity. Sus	pected of da	maging the unborn child.
<u>Com</u>	oonents:			
	um carbonate: ts on fertility	re Sı Aı M	production/d pecies: Rat	mbined repeated dose toxicity study with the evelopmental toxicity screening test oute: Ingestion D Test Guideline 422 /e
Effect ment	ts on foetal develop-	Si Ai M	pecies: Rat	bryo-foetal development ute: Ingestion D Test Guideline 414 /e
fenbe	endazole:			
Effect	ts on fertility	SI AI G	pecies: Rat oplication Ro eneral Toxic	ree-generation reproduction toxicity study ute: oral (feed) ty - Parent: NOAEL: 15 mg/kg body weight L: 45 mg/kg body weight on fertility
Effect ment	ts on foetal develop-	SI AI Di Ri	esult: Embry	female
		Te	est Type: Em	bryo-foetal development



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		Species: Rabb Application Ro Developmenta Result: Fetoto	ute: Oral I Toxicity: NOAEL: 25 mg/kg body weight			
		Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 63 mg/kg body weight				
		Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 120 mg/kg body weigh Result: No effects on foetal development				
Repro sessr	oductive toxicity - As- nent	fertility, based	e of adverse effects on sexual function and on animal experiments., Some evidence of s on development, based on animal experi-			
	- single exposure lassified based on avai	lable information.				

STOT - repeated exposure

May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed.

Components:

fenbendazole:

Exposure routes	:	Ingestion
Target Organs	:	Liver, Stomach, Nervous system, Lymph nodes
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Calcium carbonate:

Species	:	Rat
NOAEL	:	> 1,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 Days
Method	:	OECD Test Guideline 422

Starch:

Species	:	Rat
NOAEL	:	>= 2,000 mg/kg
Application Route	:	Skin contact



/ersion I2.0	Revision Date: 06.07.2024	SDS Number: 24678-00030	Date of last issue: 06.04.2024 Date of first issue: 22.10.2014
Expo Meth	sure time od	: 28 Days : OECD Test Gu	uideline 410
fenbe	endazole:		
		: Rat : 500 mg/kg : Oral : 2 Weeks	
	et Organs	: Kidney, Liver	
	EL cation Route sure time	: Rat : > 2,500 mg/kg : Oral : 30 Days : No significant a	adverse effects were reported
Expo Targe		: Rat : 1,600 mg/kg : Oral : 90 Days : Central nervou : Tremors	s system
	EL	: Dog : 4 mg/kg : 8 mg/kg : 6 Months : Stomach, Nerv	rous system, Lymph nodes
Not c	ration toxicity lassified based on av	ailable information.	
	ponents: endazole:		
	spiration toxicity class	ification	
Expe	rience with human e	xposure	
-	ponents:		
	endazole:	: Symptoms: Ra	pid respiration, Salivation, anorexia, Diarrhoe
ection 1	2: Ecological inform	ation	
Ecot	oxicity		
	-		



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Toxic	rity to fish	:	Exposure time: 9 Test substance: \	thus mykiss (rainbow trout)): > 100 mg/l 6 h Nater Accommodated Fraction Fest Guideline 203
	tity to daphnia and other tic invertebrates	:	Exposure time: 4 Test substance: \	nagna (Water flea)): > 100 mg/l 8 h Water Accommodated Fraction Fest Guideline 202
Toxic plants	sity to algae/aquatic s	:	mg/l Exposure time: 72 Test substance: \	kirchneriella subcapitata (green algae)): 50 2 h Water Accommodated Fraction est Guideline 201
			mg/l Exposure time: 7 Test substance: \	chneriella subcapitata (green algae)): > 100 2 h Water Accommodated Fraction rest Guideline 201
Toxic	ity to microorganisms	:	NOEC: 1,000 mg Exposure time: 3 Method: OECD T	
			EC50: > 1,000 m Exposure time: 3 Method: OECD T	•
fenbe	endazole:			
	sity to fish	:	LC50 (Lepomis m Exposure time: 2	nacrochirus (Bluegill sunfish)): 0.009 mg/l 1 d
	tity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0.0088 mg/l 8 h est Guideline 202
M-Fa icity)	ctor (Acute aquatic tox-	:	100	
Toxic	tity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 0.00113 mg/l 1 Days est Guideline 211
M-Fa toxici	ictor (Chronic aquatic ty)	:	10	
	istence and degradabil ata available	ity		



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Bioa	ccumulative potential				
	oonents:				
Partit	endazole: ion coefficient: n- ol/water	: 10	og Pow: 3.32		
Mobi	lity in soil				
Com	oonents:				
fenbe	endazole:				
	bution among environ- al compartments		og Koc: 3.8 - 4.7 /lethod: FDA 3.0	3	
	r adverse effects ata available				
ection 1	3: Disposal considerat	ions			
Dispo	osal methods				
•	e from residues			waste into sewer.	
Contaminated packaging :		: E c	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste had dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		
Section 1	4: Transport information	on			
Interi	national Regulations				
-	FDG umber er shipping name	: E	JN 3077 ENVIRONMENT	ALLY HAZARDOUS SUBSTANCE, SOLID,	

Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen-	:	956



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	ircraft) onmentally hazardous	: yes			
UN n	IMDG-Code UN number Proper shipping name		: UN 3077 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenbendazole)		
Packi Label EmS	Class Packing group Labels EmS Code Marine pollutant				
	sport in bulk accordin	-	MARPOL 73/78 and the IBC Code		
	nal Regulations	supplieu.			
Prope	umber er shipping name s	N.O.S. (fenbenda : 9	MENTALLY HAZARDOUS SUBSTANCE, SOLID, azole)		
Label Hazc	ing group ls hem Code ne pollutant	: III : 9 : 2Z : no			
Spec	ial precautions for us	er			
base Shee	d upon the properties o	the unpackaged ications may var	n are for informational purposes only, and solely d material as it is described within this Safety Data y by mode of transportation, package sizes, and var		
Section 1	5: Regulatory informa	tion			
Safet ture	y, health and environ	mental regulation	ons/legislation specific for the substance or mix-		
	D Approval Number llocated				
	able Exposure Limits (٦ pplicable	EL)			
Envir	onmental Exposure Lin	iits (EEL)			
	components of this pr	oduct are repor : not determ	ted in the following inventories: nined		



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IEC	SC	:	not determined			
Section	16: Other information					
	ision Date	:	06.07.2024			
Sou com	Further information Sources of key data used to compile the Safety Data Sheet		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
	Items where changes have been made to the previous version are highlighted in the body of the document by two vertical lines.					
Date	e format	:	dd.mm.yyyy			
Full	text of other abbreviati	ons				
ACG NZ (:		eshold Limit Values (TLV) orkplace Exposure Standards for Atmospher-		
	GIH / TWA DEL / WES-TWA	:	8-hour, time-weig Workplace Expos	hted average ure Standard - Time Weighted average		
Land Card Star x% ENC x% g tem; - Int Equi cent cal s Mari gani	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 Sys- tem; 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 con- centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemi- cal Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Or- ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Con- centration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median					

centration 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 Sub-





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stances 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.

NZ / EN