Version



Date of last issue: 20.03.2023

# **Posaconazole Solid Formulation**

Revision Date:

SDS Number:

1	26.09.2023	-	5 Number: 32-00023	Date of last iss Date of first iss	sue: 21.10.2014		
tion 1	: Identification						
Produ	uct name	:	Posaconazole So	lid Formulation	I		
Manu	lfacturer or supplier's d	etai	ls				
Comp	bany	:	MSD				
Addre	ess	:	33 Whakatiki Street - Private Bag 908 Upper Hutt - New Zealand				
Telep	hone	:	0800 800 543				
Emer	gency telephone number	:	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800		
E-ma	il address	:	EHSDATASTEW	ARD@msd.cor	n		
Reco	mmended use of the ch	emi	ical and restrictio	ons on use			
	mmended use	:	Pharmaceutical				
Resu	ictions on use	•	Not applicable				
<b>GHS</b> Serio	: Hazard identification Classification us eye damage/eye irri-	:	Category 2				
tation							
		:	Category 2				
Repro Spec		:			e marrow, Kidney, Liver, Ne s)		
Repro Speci repea Haza	oductive toxicity fic target organ toxicity -	:	Category 1 (Adre				
Repro Speci repea Haza enviro	oductive toxicity fic target organ toxicity - ited exposure (Oral) rdous to the aquatic	:	Category 1 (Adre ous system, Rep				
Repro Speci repea Haza enviro GHS	oductive toxicity fic target organ toxicity - ated exposure (Oral) rdous to the aquatic onment - chronic hazard	:	Category 1 (Adre ous system, Rep				
Repro Speci repea Haza enviro <b>GHS</b> Haza	oductive toxicity fic target organ toxicity - ited exposure (Oral) rdous to the aquatic onment - chronic hazard label elements	: : :	Category 1 (Adre ous system, Rep				
Repro Speci repea Haza enviro GHS Haza Signa	oductive toxicity fic target organ toxicity - ated exposure (Oral) rdous to the aquatic onment - chronic hazard <b>label elements</b> rd pictograms	: : : :	Category 1 (Adre ous system, Rep Category 2 Category 2 Danger H319 Causes se H361d Suspecter H372 Causes da	roductive organ	s)		



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			repeated exposure if swallowed. aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understor P264 Wash sl P270 Do not e P273 Avoid re	kin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment. otective gloves/ protective clothing/ eye protec-
		for several mi easy to do. Co P308 + P313 attention.	+ P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice/ If eye irritation persists: Get medical advice/ at- spillage.
		<b>Storage:</b> P405 Store lo	
		<b>Disposal:</b> P501 Dispose disposal plant	of contents/ container to an approved waste
	r hazards which do no	ot result in classific	ation

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

: Mixture

## Section 3: Composition/information on ingredients

Components					
Chemical name	CAS-No.	Concentration (% w/w)			
Posaconazole	171228-49-2	>= 10 -< 20			
Cellulose	9004-34-6	>= 10 -< 20			

## Section 4: First-aid measures

Substance / Mixture

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.

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In cas	e of skin contact	:	of water. Remove contar	act, immediately flush skin with soap and plenty ninated clothing and shoes.			
In cas	e of eye contact	:	In case of conta for at least 15 r If easy to do, re	before reuse. an shoes before reuse. act, immediately flush eyes with plenty of water ninutes. emove contact lens, if worn.			
lf swa	llowed	:	Get medical att	O NOT induce vomiting. ention.			
	important symptoms ffects, both acute and ed	:	Diarrhoea Headache Vomiting Nausea Fever Causes serious Suspected of d Causes damag exposure if swa Contact with du	amaging the unborn child. e to organs through prolonged or repeated			
Protec	Protection of first-aiders		and use the rec	nders should pay attention to self-protection, commended personal protective equipment itial for exposure exists (see section 8).			
	to physician	: Treat symptomatically and supportively.					
ection 5:	Fire-fighting measure	S					
Suitab	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide				
	table extinguishing	:	Dry chemical None known.				
media	fic hazards during fire-	:	None known. Avoid generatir concentrations, potential dust e	ng dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a xplosion hazard. mbustion products may be a hazard to health.			
media Specit fightin	fic hazards during fire-	:	None known. Avoid generatir concentrations, potential dust e	and in the presence of an ignition source is a xplosion hazard.			
media Specif fightin Hazar ucts	fic hazards during fire-	:	None known. Avoid generatir concentrations, potential dust e Exposure to co Carbon oxides Metal oxides Use extinguishi cumstances an Use water spra	and in the presence of an ignition source is a xplosion hazard.			

Hygiene measures



## Posaconazole Solid Formulation

: If exposure to chemical is likely during typical use, provide eye



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	ions for safe storage als to avoid	place. When using do r Wash contamina The effective op engineering con appropriate dego industrial hygien use of administra : Keep in properly Store locked up. Store in accorda	A labelled containers. Ance with the particular national regulations. In the following product types:

## Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Posaconazole	171228-49-2	TWA	300 µg/m3 (OEB 2)	Internal			
Cellulose	9004-34-6	WES-TWA	10 mg/m3	NZ OEL			
		TWA	10 mg/m3	ACGIH			
Engineering measures :	compound. All engineerin design and op	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.					
Personal protective equipmer	nt						
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 ty	Particulates type					
Material :	Chemical-resi	Chemical-resistant 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 :	Work uniform	or laboratory co	at.				

## Components with workplace control parameters



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A	Appeara	ance	:	powder					
C	Colour		:	No data available	)				
C	Odour		:	No data available					
(	Odour Threshold		:	No data available					
þ	ъH		:	No data available	9				
Ν	Melting	point/freezing point	:	No data available	9				
	nitial bo ange	biling point and boiling	:	No data available					
F	-lash p	oint	:	Not applicable					
E	Evapora	ation rate	:	Not applicable					
F	-lamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.				
F	Flamma	ability (liquids)	:	No data available					
		explosion limit / Upper bility limit	:	No data available	)				
		explosion limit / Lower bility limit	:	No data available					
١	√apour	pressure	:	No data available	)				
F	Relative	e vapour density	:	Not applicable					
F	Relative	e density	:	No data available					
[	Density		:	No data available					
S	Solubilit Wate	ty(ies) er solubility	:	No data available	)				
	Partitior	n coefficient: n-	:	Not applicable					
		nition temperature	:	No data available	)				
[	Decomp	position temperature	:	No data available					
١	Viscosit Visc	y osity, kinematic	:	Not applicable					
E	Explosiv	ve properties	:	Not explosive					





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Oxidiz	zing properties	:	The substance of	or mixture is not classified as oxidizing.				
Molec	Molecular weight		No data available					
Particle size		:	: Not applicable					
ection 10	0: Stability and reactiv	ity						
	tivity hical stability bility of hazardous reac-	:	Stable under no May form explose dling or other me	ive dust-air mixture during processing, han-				
Condi	itions to avoid	:	Heat, flames and					
Incompatible materials Hazardous decomposition products		:	<ul><li>Avoid dust formation.</li><li>Oxidizing agents</li><li>No hazardous decomposition products are known.</li></ul>					
ection 1	1: Toxicological inform	atic	on					
Expos	sure routes	:	Inhalation Skin contact Ingestion					
			Eye contact					
Acute	e toxicity							
Not cl	assified based on availa	ble	Eye contact					
Not cl <u>Com</u> r	assified based on availa	ıble	Eye contact					
Not cl <u>Comp</u> Posa	assified based on availa		Eye contact	100 mg/kg				
Not cl <u>Comp</u> Posa	assified based on availa conents: conazole:		Eye contact					
Not cl <u>Comr</u> Posad Acute	assified based on availa conents: conazole:		Eye contact information. LD50 (Rat): > 5,0	3,000 mg/kg				
Not cl <u>Comr</u> Posad Acute	assified based on availa <u>conents:</u> conazole: oral toxicity dermal toxicity	:	Eye contact information. LD50 (Rat): > 5,0 LD50 (Mouse): >	3,000 mg/kg				
Not cl Comp Posad Acute Acute	assified based on availa <u>conents:</u> conazole: oral toxicity dermal toxicity	:	Eye contact information. LD50 (Rat): > 5,0 LD50 (Mouse): >	3,000 mg/kg 000 mg/kg				
Not cl Comp Posad Acute Acute Cellu Acute	assified based on availa <u>conents:</u> conazole: oral toxicity dermal toxicity lose:	:	Eye contact information. LD50 (Rat): > 5,0 LD50 (Mouse): > LD50 (Rat): > 2,0	3,000 mg/kg 100 mg/kg 100 mg/kg 6 mg/l h				



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## Skin corrosion/irritation

Not classified based on available information.

## **Components:**

#### Posaconazole:

Species	:	Rabbit
Result	:	No skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Components:**

#### **Posaconazole:**

Species	:	Rabbit
Result	:	Mild eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

## **Components:**

#### **Posaconazole:**

:	Magnusson-Kligman-Test
:	Skin contact
:	Guinea pig
:	negative
	:

## **Chronic toxicity**

## Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

Posaconazole:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Chromosomal aberration Result: negative
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intravenous



ersion .1	Revision Date: 26.09.2023	SDS Number: 23532-00023	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014			
		Result: nega	tive			
		5				
Cellu	llose:					
Geno	otoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive			
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive			
Geno	otoxicity in vivo	city in vivo : Test Type: Mammalian erythrocyte micronucleus tes cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative				
	inogenicity					
Not c	lassified based on av	ailable information.				
Com	ponents:					
Posa	conazole:					
Speci		: Rat				
	cation Route sure time	: oral (feed) : 2 Years				
Resu		: positive				
Rema	arks	: The mechan	ism or mode of action is not relevant in humans.			
Spec	ies	: Mouse				
Appli	cation Route	: Oral				
	sure time	: 2 Years				
Resu Rema		: positive : The mechan	n or mode of action is not relevant in humans. n or mode of action is not relevant in humans.			
Cellu	llose:					
Spec		: Rat				
Appli	cation Route	: Ingestion				
•	sure time	: 72 weeks				
Resu	lt	: negative				
-	oductive toxicity ected of damaging th	unborn child				
	ponents:					
Posa	conazole:					
	ts on fertility	Species: Rat General Tox	icity - Parent: NOAEL: 180 mg/kg body weight No effects on mating performance			



Version 11.1	Revision Date: 26.09.2023	SDS Number: 23532-00023		Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
Effects	s on foetal develop-	9 0 9 7 7 1 9 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9	pecies: Rat, fem General Toxicity - Symptoms: No eff Lesult: negative Test Type: Embry Species: Rat, fem	Parent: NOAEL: 45 mg/kg body weight ects on mating performance o-foetal development ale
		L F S C F	esult: Fetotoxicit est Type: Embry pecies: Rabbit, f pevelopmental To esult: Fetotoxicit	oxicity: LOAEL: 29 mg/kg body weight y, Malformations were observed. o-foetal development emale oxicity: LOAEL: 40 mg/kg body weight y
Repro sessm	ductive toxicity - As- ient		ome evidence of nimal experimen	adverse effects on development, based on ts.
Cellul	ose:			
Effects	s on fertility	S	est Type: One-g pecies: Rat pplication Route cesult: negative	eneration reproduction toxicity study : Ingestion
Effects	s on foetal develop-	S	est Type: Fertility pecies: Rat pplication Route esult: negative	y/early embryonic development : Ingestion

## STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Causes damage to organs (Adrenal gland, Bone marrow, Kidney, Liver, Nervous system, Reproductive organs) through prolonged or repeated exposure if swallowed.

## Components:

Posaconazole:	
Exposure routes	: Ingestion
Target Organs	: Adrenal gland, Bone marrow, Kidney, Liver, Reproductive organs, Nervous system
Assessment	: Causes damage to organs through prolonged or repeated exposure.



Version 11.1	Revision Date: 26.09.2023	SDS Number: 23532-00023	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
Repe	eated dose toxicity		
Com	ponents:		
Posa	aconazole:		
Expo		: Rat, female : 5 mg/kg : Oral : 6 Months : Adrenal gland	, Lungs, Heart, Liver, spleen, Kidney, Ovary
Expo		: Dog : 3 mg/kg : Oral : 392 Days : Lungs, Liver, F cord, lymphoid	Brain, small intestine, Adrenal gland, Spinal I tissue
Expo		: Monkey : 15 mg/kg : Oral : 1 Months : Bone marrow,	Adrenal gland, Lymph nodes, Blood
Expo			, Bone marrow, Kidney, Nervous system, s gland, Testis, lymphoid tissue
Expo		: Monkey : 180 mg/kg : Oral : 12 Months : Blood, Gastroi	ntestinal tract, spleen
Expo		: Monkey : 8 mg/kg : Intravenous : 1 Months : Cardio-vascula	ar system, Lungs, Adrenal gland, Blood
Spec NOA Appli		: Rat : >= 9,000 mg/k : Ingestion : 90 Days	g

## Aspiration toxicity

Not classified based on available information.



ersion 1.1	Revision Date: 26.09.2023		0S Number: 532-00023	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
Ехре	rience with human exp	osi	Ire	
Com	ponents:			
Inges		:		h, Headache, Nausea, Vomiting, Fever, Liv ritis, Diarrhoea, hypertension, neutropenia, nce
ection 1	2: Ecological informati	on		
Ecote	oxicity			
Com	ponents:			
Posa	conazole:			
Toxic	ity to fish	:	Exposure time: 96 Method: OECD T	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.276 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokiro 0.509 mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	
	ctor (Acute aquatic tox-	:	1	
icity) Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 33 Method: OECD T	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2 Method: OECD T	
	ctor (Chronic aquatic	:	1	
toxici Toxic	ty) ity to microorganisms	:	EC50 (Natural mi Exposure time: 3 Test Type: Respin Method: OECD T	ation inhibition



sion 1	Revision Date: 26.09.2023		S Number: 532-00023	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
<b>Cellul</b> Toxici	<b>ose:</b> ty to fish	:	Exposure time:	atipes (Japanese medaka)): > 100 mg/l 48 h d on data from similar materials
Persis	stence and degradab	ility		
Comp	oonents:			
Posad	conazole:			
Biode	gradability	:	Biodegradation Exposure time:	
Stabili	ty in water	:		lf life (DT50): > 30 d Test Guideline 111
Cellul	ose:			
Biode	gradability	:	Result: Readily	biodegradable.
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Posad	conazole:			
Bioaco	cumulation	:	Bioconcentratio	nis macrochirus (Bluegill sunfish) n factor (BCF): 20 Test Guideline 305
	on coefficient: n- ol/water	:	log Pow: 4.15	
Mobil	ity in soil			
<u>Comp</u>	oonents:			
Posad	conazole:			
	oution among environ- Il compartments	:	log Koc: 5.52	
	<b>adverse effects</b> ta available			
tion 13	3: Disposal considera	ations	5	

Waste from residues : Do not dispose of waste into sewer. Dispose of in accordance with local regulations.





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Conta	aminated packaging	:	dling site for re	ers should be taken to an approved waste han cycling or disposal. e specified: Dispose of as unused product.
ection 1	4: Transport information	on		
Interr	national Regulations			
UNR	TDG			
UN ni	umber	:	UN 3077	
Prope	er shipping name	:	ENVIRONMEN N.O.S. (Posaconazole	ITALLY HAZARDOUS SUBSTANCE, SOLID,
Class	;	:	9	, ,
	ng group	:	III	
Label		:	9	
Envir	onmentally hazardous	:	yes	
IATA	-DGR			
UN/IE		:	UN 3077	
-	er shipping name	:	(Posaconazole	y hazardous substance, solid, n.o.s. e)
Class		:	9	
	ng group	÷	III Miscellaneous	
Label	s ng instruction (cargo	÷	956	
aircra		•	900	
Packi ger ai	ng instruction (passen- ircraft)	:	956	
Envir	onmentally hazardous	:	yes	
IMDG	G-Code			
UN n	umber er shipping name	:	UN 3077 ENVIRONMEN	ITALLY HAZARDOUS SUBSTANCE, SOLID,
·	-		N.O.S. (Posaconazole	)
Class		:	9	
	ng group	:	III	
Label		:	9	
EmS Marin	Code le pollutant	:	F-A, S-F	
		·	yes	
	sport in bulk according pplicable for product as	-		RPOL 73/78 and the IBC Code
	nal Regulations	12		
NZS	5433			
	umber	•	UN 3077	
	er shipping name	÷		ITALLY HAZARDOUS SUBSTANCE, SOLID,
		·	N.O.S. (Posaconazole	
Class			0	,

: 9 : III

Class

Packing group



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Labels	:	9
Hazchem Code	:	2Z
Marine pollutant	:	no

#### 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

### HSNO Approval Number

HSR100425 Pharmaceutical Active Ingredients Group Standard

### **HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### Section 16: Other information

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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/		
Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
NZOEL	:	New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants		
	:	8-hour, time-weighted average		
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average		



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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.

NZ / EN