

Version



Date of last issue: 30.09.2023

Calcium Salt Formulation

Revision Date:

)	06.07.2024		32256-00013	Date of first issue: 21.05.2019
ction 1	: Identification			
Produ	uct name	:	Calcium Salt F	ormulation
Manı	afacturer or supplier's d	leta	ils	
Comp	bany	:	MSD	
Addre	ess	:	33 Whakatiki S Upper Hutt - N	street - Private Bag 908 ew Zealand
Telep	phone	:	0800 800 543	
Emer	gency telephone number	r:	0800 764 766 CHEMCALL)	(0800 POISON) 0800 243 622 (0800
E-ma	il address	:	EHSDATASTE	WARD@msd.com
Reco	mmended use of the cl	hem	ical and restric	tions on use
Reco	mmended use ictions on use	:	Veterinary proc Not applicable	
ection 2	: Hazard identification			
GHS	Classification			
Serio tation	us eye damage/eye irri-	:	Category 1	
Skin	sensitisation	:	Category 1	
Repro	oductive toxicity	:	Category 1	
GHS	label elements			
Haza	rd pictograms	:		
Signa	al word	:	Danger	v v
Haza	rd statements	:	H318 Causes	se an allergic skin reaction. serious eye damage. lamage fertility. May damage the unborn cl
Preca	autionary statements	:	Prevention:	
11				pecial instructions before use.

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		the workplace.	ptective gloves/ protective clothing/ eye protec-
		P305 + P351 + water for sever and easy to do CENTER/ doct P308 + P313 I attention.	F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical ad-
		Storage: P405 Store loc	sked up.
		Disposal:	of contents/ container to an approved waste

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Boric acid	10043-35-3	>= 1 -< 10
Calcium Lactate Pentahydrate	63690-56-2	>= 3 -< 10
Benzyl alcohol	100-51-6	>= 0.1 -< 1

Section 4: First-aid measures

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. 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	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

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			If easy to do rer	nove contact lens, if worn.
lf swal	lowed	:	Get medical atte If swallowed, DC Get medical atte	ention immediately. D NOT induce vomiting.
and ef delaye	mportant symptoms fects, both acute and d tion of first-aiders	:	May cause an a Causes serious May damage fer First Aid respon- and use the reco	llergic skin reaction.
Notes	to physician	:		tically and supportively.
ection 5:	Fire-fighting measure	s		
Suitab	le extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical	
media	able extinguishing	:	None known.	
fighting		:		nbustion products may be a hazard to health
Hazaro ucts	dous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosp Boron oxides	horus
Specifi ods	ic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to
	al protective equipment fighters	:		re, wear self-contained breathing apparatus otective equipment.
ection 6:	Accidental release me	as	ures	
tive eq	nal precautions, protec- uipment and emer- procedures	:	Follow safe han	otective equipment. dling advice (see section 7) and personal pro nt recommendations (see section 8).
Enviro	nmental precautions	:	Prevent further I Prevent spreadin barriers). Retain and dispo	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or ose of contaminated wash water. s should be advised if significant spillages ined.
Metho	ds and materials for	:	Soak up with ine	ert absorbent material.



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cor	ntainment and cleaning up		ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	provide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
Section	7: Handling and storage	e		
Te	chnical measures	:	See Engineering	measures under EXPOSURE

l echnical measures	:	CONTROLS/PERSONAL PROTECTION section.
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 vapours or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. 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. Wash contaminated clothing before re-use.
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

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
Boric acid	10043-35-3	TWA (Inhal- able particu- late matter)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhal-	6 mg/m3	ACGIH





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				particu- matter)	(Borate)			
Engir	neering measures	lf	inimize workplace sufficient ventilatic entilation.		concentrations. ailable, use with loca	al exhaust		
Perso	onal protective equip	oment						
Filter type Hand protection		S	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-					
			ommended guidelines, use respiratory protection. Particulates type					
Ma	aterial	: C	hemical-resistant (gloves				
Re	emarks	o s d a c g	n the concentration ance and specific etermined for the p oplications, we rec nemicals of the afo	n and quan to place o product. C ommend prementior	ds against chemicals ntity of the hazardou f work. Breakthrough hange gloves often! clarifying the resistan ned protective gloves nds before breaks a	s sub- n time is not For special nce to s with the		
Eye p	protection	: V C If	: Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield					
Skin a	and body protection	: S re p	elect appropriate p sistance data and otential.	an asses e avoided	clothing based on ch sment of the local ex by using impervious	posure		

Appearance	:	Aqueous solution
Colour	:	Clear white to yellow.
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	-3 °C
Initial boiling point and boiling range	:	100 °C
Flash point	:	No data available



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	Evapor	ation rate	:	No data available	
		ability (solid, gas)	:	Not applicable	
			•		
		ability (liquids)	•	No data available	
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available)
	Vapour	rpressure	:	No data available)
	Relativ	e vapour density	:	No data available)
	Relativ	e density	:	1.12 - 1.18	
	Density	/	:	No data available)
	Solubil Wat	ity(ies) ter solubility	:	soluble	
	Solu	ubility in other solvents	:	insoluble Solvent: Ethanol	
		n coefficient: n-	:	Not applicable	
	octano Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, dynamic	:	3.41 - 3.47 mPa.	S
	Viso	cosity, kinematic	:	No data available)
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity

: Not classified as a reactivity hazard.



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Possi tions Condi Incom	nical stability bility of hazardous reac- itions to avoid upatible materials rdous decomposition cts	:	Can react with None known. Oxidizing agen	ormal conditions. strong oxidizing agents. ts decomposition products are known.		
ection 1 ⁻	1: Toxicological inform	natic	on			
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact			
	e toxicity assified based on availa	able	information.			
<u>Comp</u>	oonents:					
	acid: oral toxicity	:	LD50 (Rat): 3,4	50 mg/kg		
Acute	inhalation toxicity	:	LC50 (Rat): > 2.03 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhal tion toxicity			
Acute	dermal toxicity	:	LD50 (Rabbit): Assessment: Th toxicity	> 2,000 mg/kg ne substance or mixture has no acute dermal		
II Calci	um Lactate Pentahydra	ate:				
	oral toxicity	:		,000 mg/kg A Test Guideline OPP 81-1 d on data from similar materials		
Acute	inhalation toxicity	:		4 h		
Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Remarks: Based on data from similar materials				
Benz	yl alcohol:					
Acute	oral toxicity	:	LD50 (Rat): 1,6	20 mg/kg		
Acuto	inhalation toxicity		LC50 (Rat): > 4	.178 mg/l		



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			Exposure time: 4 Test atmosphere Method: OECD 1	
Acute	e dermal toxicity	:	Method: Expert j	timate: 1,100 mg/kg udgement on national or regional regulation.
-	corrosion/irritation			
	lassified based on ava	ailable	information.	
	ponents:			
Spec	c acid: ies	:	Rabbit	
Resu		:	No skin irritation	
Calci	ium Lactate Pentahy	drate:		
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guid No skin irritation	
Rema		:		om similar materials
Benz	yl alcohol:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guid No skin irritation	leline 404
Serio	ous eye damage/eye i	irritati	on	
	es serious eye damag ponents:	je.		
	c acid:			
Resu Rema		:		reversing within 21 days al or regional regulation.
Calci	ium Lactate Pentahy	drate:		
Spec Rema	ies arks	:	Chicken eye Based on data fr	om similar materials
Resu	lt	:	Irreversible effec	ts on the eye
Benz	yl alcohol:			
Spec	ies	:	Rabbit	
Resu Meth		:	Irritation to eyes, OECD Test Guid	reversing within 21 days



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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Boric acid:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Test Type Exposure routes Species Method Result	: negative

Calcium Lactate Pentahydrate:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative
Test Type Exposure routes Species Result Remarks	: Based on data from similar materials

Benzyl alcohol:

Assessment	:	Probability or evidence of skin sensitisation in humans
Remarks	:	Based on national or regional regulation.

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

Boric acid:

Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
	Test Type: In vitro mammalian cell gene mutation test Result: equivocal			
	Test Type: Chromosome aberration test in vitro Result: negative			
Genotoxicity in vivo	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative			



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Benz	yl alcohol:			
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection
Carci	nogenicity			
	lassified based on ava	ilable	information.	
Com	oonents:			
Speci	acid:		Mouse	
	cation Route	:	Ingestion	
	sure time	:	103 weeks	
Resu	lt	:	negative	
Benz	yl alcohol:			
Speci		:	Mouse	
	cation Route	:	Ingestion	
Expo Metho	sure time		103 weeks OECD Test Gui	deline 451
Resu		:	negative	
Repr	oductive toxicity			
May o	damage fertility. May d	amag	e the unborn chil	d.
Prod	uct:			
Repro sessr	oductive toxicity - As- nent	:	May damage fe	rtility. May damage the unborn child.
Com	ponents:			
Boric	acid:			
Effect	ts on fertility	:	Test Type: Thre	e-generation reproduction toxicity study
	-		Species: Rat	
			Application Rou	ite: Ingestion
			Result: positive	
Effect	ts on foetal develop-	:		oryo-foetal development
			Species: Rabbit Application Rou	
ment	·			
ment	·		Result: positive	
			Result: positive	
Repro	oductive toxicity - As-	:	Result: positive Clear evidence	of adverse effects on sexual function and fer
	oductive toxicity - As-	:	Result: positive Clear evidence ity, based on ar	of adverse effects on sexual function and fer imal experiments., Clear evidence of adverse lopment, based on animal experiments.



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Benzyl alcohol:

Effects on fertility	:	Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Boric acid:

Species	:	Rat
NOAEL	:	100 mg/kg
LOAEL	:	334 mg/kg
Application Route	:	Ingestion
Species NOAEL LOAEL Application Route Exposure time	:	2 yr

Benzyl alcohol:

Species	: Rat
NOAEL	: 1.072 mg/l
Species NOAEL Application Route	: inhalation (dust/mist/fume)
Exposure time Method	: 28 Days
Method	: OECD Test Guideline 412

Aspiration toxicity

Not classified based on available information.

Section 12: Ecological information

Ecotoxicity

Components:

Boric acid:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 74 mg/l Exposure time: 96 h



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	y to daphnia and other c invertebrates	:	EC50 (Ceriodaph Exposure time: 4	nnia dubia (water flea)): 102 mg/l 8 h	
Toxicity to algae/aquatic plants		:	 EC50 (Pseudokirchneriella subcapitata (green algae) mg/l Exposure time: 72 h Method: OECD Test Guideline 201 		
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 17. 2 h ⁻ est Guideline 201	
Toxicit <u>;</u> icity)	y to fish (Chronic tox-	:	Exposure time: 3	rio (zebra fish)): 6.4 mg/l 4 d ⁻ est Guideline 210	
aquatio	c invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 10.8 mg/l 1 d	
ic toxicity) Toxicity to microorganisms		:	EC10: 35.4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Calciu	m Lactate Pentahydra	ite:			
Toxicit	y to fish	:	Exposure time: 9	chus mykiss (rainbow trout)): > 100 mg/l 6 h on data from similar materials	
	y to daphnia and other c invertebrates	:	Exposure time: 4 Method: OECD	nagna (Water flea)): > 100 mg/l 8 h Test Guideline 202 on data from similar materials	
Toxicit <u>;</u> plants	y to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD 1	irchneriella subcapitata (green algae)): > 1 0 h ⁻ est Guideline 201 on data from similar materials	
			mg/l Exposure time: 7 Method: OECD 1	irchneriella subcapitata (green algae)): > 1 0 h ⁻ est Guideline 201 on data from similar materials	
Toxicit	y to microorganisms	:	EC50: > 100 mg/ Exposure time: 3 Method: OECD 7	h	

Benzyl alcohol:



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То	xicity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l s h	
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	xicity to algae/aquatic ints	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)		NOEC (Daphnia n Exposure time: 21 Method: OECD Te		
Pe	rsistence and degradabil	ity			
<u>Co</u>	emponents:				
	Icium Lactate Pentahydra	ate:	Dooult: Not roodily	, biodegradable	
ыс	odegradability	•	Result: Not readily Remarks: Based of	on data from similar materials	
Ве	nzyl alcohol:				
Bio	odegradability	:	Result: Readily bid Biodegradation: 9 Exposure time: 14	92 - 96 %	
Bie	paccumulative potential				
<u>Co</u>	omponents:				
Во	pric acid:				
Bic	paccumulation	:	Species: Cyprinus Bioconcentration f Method: OECD Te	factor (BCF): <= 3.2	
	rtition coefficient: n- tanol/water	:	log Pow: -1.09		
Ca	Calcium Lactate Pentahydrate:				
	rtition coefficient: n- tanol/water	:	log Pow: -0.698 Remarks: Calcula	tion	
Bo					

Benzyl alcohol:



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octar Mobi No da Othe	ion coefficient: n- hol/water lity in soil ata available r adverse effects ata available	: log Pow: 1.05	
Section 1	3: Disposal considerat	ions	
Wast	osal methods e from residues aminated packaging	Dispose of in a : Empty contain dling site for re	e of waste into sewer. accordance with local regulations. ers should be taken to an approved waste han- ecycling or disposal. e specified: Dispose of as unused product.
Section 1	4: Transport information	on	
Inter	national Regulations		
Prope Class Subs Pack Labe Envir IATA UN/II Prope Class Subs Pack Labe Pack	umber er shipping name s idiary risk ing group ls onmentally hazardous -DGR D No. er shipping name s idiary risk ing group ls ing instruction (cargo	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no Not applicable 	
aircra Pack		: Not applicable	
UN n Prope Class Subs Pack Labe EmS	idiary risk ing group	 Not applicable 	



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

Not applicable for product as supplied.

National Regulations

NZS 5433		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL) Not applicable

Environmental Exposure Limits (EEL)

Not applicable

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

Revision Date	:	06.07.2024
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/



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

Date format	:	dd.mm.yyyy
Full text of other abbreviation	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit

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.