

# **Calcium Salt Formulation**

Version 7.0	Revision Date: 06.07.2024		S Number: 2247-00014	Date of last issue: 06.04.2024 Date of first issue: 21.05.2019		
	1: IDENTIFICATION act name	:	Calcium Salt F	ormulation		
Manu	Ifacturer or supplier's	detai	ls			
Comp		:		- Intervet Australia Pty Limited (trading as MSD Animal Health		
Addre	Address		91-105 Harpin Street Bendigo 3550, Victoria Austrailia			
Telep	hone	:	1 800 033 461			
Emer	Emergency telephone number		Poisons Inform	nation Centre: Phone 13 11 26		
E-ma	E-mail address		EHSDATASTEWARD@msd.com			
Reco	mmended use of the	chemi	ical and restric	tions on use		
Reco	Recommended use		Veterinary proc	duct		
Restr	ictions on use	:	Not applicable			

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irri- tation	:	Category 1
Reproductive toxicity	:	Category 1B
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H318 Causes serious eye damage. H360FD May damage fertility. May damage the unborn child.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with



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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P313 IF exposed or concerned: Get medical advice/

# attention. Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

### Components

Componente		
Chemical name	CAS-No.	Concentration (% w/w)
Boric acid	10043-35-3	>= 0.3 -< 10
Calcium Lactate Pentahydrate	63690-56-2	>= 3 -< 10
Benzyl alcohol	100-51-6	< 10

### **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. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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Note	s to physician	:	when the potentia	nmended personal protective equipment Il for exposure exists (see section 8). cally and supportively.
SECTION	I 5. FIREFIGHTING MEA	SU	RES	
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsu medi	uitable extinguishing	:	None known.	
	ific hazards during fire-	:	Exposure to com	oustion products may be a hazard to health.
	ardous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosph Boron oxides	orus
Spec ods	ific extinguishing meth-	:	cumstances and t Use water spray t Remove undama so.	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
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
SECTION	I 6. ACCIDENTAL RELE	ASI	E MEASURES	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envi	ronmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	For large spills, p ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the c	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- trial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable.



**SECTION 7. HANDLING AND STORAGE** 

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Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.				
Advice on safe handling	<ul> <li>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 assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the</li> </ul>				
Hygiene measures	<ul> <li>environment.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> </ul>				
Conditions for safe storage	<ul> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>Keep in properly labelled containers.</li> <li>Store locked up.</li> <li>Keep tightly closed.</li> </ul>				
Materials to avoid	<ul><li>Store in accordance with the particular national regulations.</li><li>Do not store with the following product types: Strong oxidizing agents</li></ul>				

### 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- able particu- late matter)	6 mg/m3 (Borate)	ACGIH

Engineering measures

Minimize workplace exposure concentrations.

If sufficient ventilation is unavailable, use with local exhaust ventilation.

### Personal protective equipment



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Respiratory protection Filter type Hand protection		sure assess	local exhaust ventilation is not available or expo- ment demonstrates exposures outside the rec- guidelines, use respiratory protection.			
		: Particulates type				
M	aterial	: Chemical-resistant gloves				
Remarks		on the conce stance and s determined applications chemicals or	ves to protect hands against chemicals dependir entration and quantity of the hazardous sub- specific to place of work. Breakthrough time is no for the product. Change gloves often! For specia , we recommend clarifying the resistance to f the aforementioned protective gloves with the facturer. Wash hands before breaks and at the day.			
Eye protection Skin and body protection		Chemical re	llowing personal protective equipment: sistant goggles must be worn. are likely to occur, wear:			
		<ul> <li>Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.</li> <li>Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).</li> </ul>				
ECTION	9. PHYSICAL AND C	HEMICAL PROPE	RTIES			
Appe	arance	: Aqueous so	blution			
0.1.						

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
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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	wer explosion limit / Lower mmability limit	:	No data available	
Va	apour pressure	:	No data available	)
Re	elative vapour density	:	No data available	)
Re	elative density	:	1.12 - 1.18	
De	ensity	:	No data available	)
So	blubility(ies) Water solubility	:	soluble	
	Solubility in other solvents	:	insoluble Solvent: Ethanol	
	artition coefficient: n-	:	Not applicable	
	tanol/water ito-ignition temperature	:	No data available	9
De	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, dynamic	:	3.41 - 3.47 mPa.	S
	Viscosity, kinematic	:	No data available	)
Ex	plosive properties	:	Not explosive	
O	kidizing properties	:	The substance o	r mixture is not classified as oxidizing.
M	olecular weight	:	No data available	)
	article characteristics article size	:	Not applicable	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.



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ECTION	11. TOXICOLOGICA	L INFORMATION	
Expo	sure routes	: Inhalation Skin contac Ingestion Eye contac	
	e toxicity lassified based on ava	ilable information.	
Com	ponents:		
	<b>acid:</b> oral toxicity	: LD50 (Rat):	3,450 mg/kg
	inhalation toxicity	: LC50 (Rat) Exposure ti Test atmos Method: OE	z > 2.03 mg/l
Acute	e dermal toxicity		bit): > 2,000 mg/kg t: The substance or mixture has no acute dermal
Calci	um Lactate Pentahyo	Irate:	
Acute	e oral toxicity	Method: US	s > 5,000 mg/kg S EPA Test Guideline OPP 81-1 Based on data from similar materials
Acute	inhalation toxicity	Method: OE	
Acute	e dermal toxicity		bit): > 2,000 mg/kg based on data from similar materials
	yl alcohol:		
Acute	e oral toxicity	: LD50 (Rat):	1,620 mg/kg
Acute	inhalation toxicity	Exposure ti Test atmos	: > 4.178 mg/l me: 4 h phere: dust/mist ECD Test Guideline 403

### Skin corrosion/irritation

Not classified based on available information.



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-				
Com	ponents:			
Borio	c acid:			
Spec Resu		:	Rabbit No skin irritation	
Calc	ium Lactate Pentahy	drate:		
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guide No skin irritation	eline 404
Rem		:		om similar materials
Benz	yl alcohol:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guide No skin irritation	eline 404
	ous eye damage/eye		ion	
Caus	ses serious eye damag	ge.		
<u>Com</u>	ponents:			
Borio	c acid:			
Spec Resu		:	Rabbit No eye irritation	
Calc	ium Lactate Pentahy	drate:		
Spec		:	Chicken eye	
Rem	arks	:	Based on data fro	om similar materials
Resu	ilt	:	Irreversible effect	s on the eye
	yl alcohol:			
Spec Resu		:	Rabbit	reversing within 21 days
Meth		:	OECD Test Guide	
Resp	biratory or skin sensi	itisatio	on	
Skin	sensitisation			
Not c	lassified based on ava	ailable	information.	
-	<b>biratory sensitisation</b> classified based on avai		information	
	ponents:			
	c acid:			
Test		:	Buehler Test	
1000		•		



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Expos	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho		: OECD Test Gu	uideline 406
Resu	It	: negative	
Calci	um Lactate Pentah	ydrate:	
Test <sup>-</sup>	Туре	: Buehler Test	
	sure routes	: Skin contact	
Speci		: Guinea pig	
Resul Rema		: negative : Based on data	from similar materials
Reine	1175	. Dased on data	
	yl alcohol:		
Test -		: Maximisation	est
Expos	sure routes	: Skin contact	
Metho		: Guinea pig : OECD Test Gu	uideline 406
Resu		: negative	
	n cell mutagenicity		
Com		vailable information.	
	ponents: acid:	vailable information.	
Boric	ponents:		cterial reverse mutation assay (AMES) /e
Boric	ponents: acid:	: Test Type: Bac Result: negativ	re ritro mammalian cell gene mutation test
Boric	ponents: acid:	: Test Type: Bac Result: negativ Test Type: In v Result: equivo	re ritro mammalian cell gene mutation test cal romosome aberration test in vitro
<b>Boric</b> Geno	ponents: acid:	: Test Type: Bac Result: negativ Test Type: In v Result: equivo Test Type: Ch Result: negativ	re ritro mammalian cell gene mutation test cal romosome aberration test in vitro re mmalian erythrocyte micronucleus test (in v say) re ute: Ingestion
<b>Boric</b> Geno	ponents: acid: toxicity in vitro	<ul> <li>Test Type: Bac Result: negative Test Type: In ve Result: equive Test Type: Cha Result: negative</li> <li>Test Type: Ma cytogenetic as Species: Mous Application Ro</li> </ul>	re ritro mammalian cell gene mutation test cal romosome aberration test in vitro re mmalian erythrocyte micronucleus test (in v say) re ute: Ingestion
Boric Geno Geno Benz	ponents: acid: toxicity in vitro	<ul> <li>Test Type: Bac Result: negative Test Type: In ve Result: equivore Test Type: Char Result: negative</li> <li>Test Type: Mac cytogenetic as Species: Mous Application Ro Result: negative</li> </ul>	re ritro mammalian cell gene mutation test cal romosome aberration test in vitro re mmalian erythrocyte micronucleus test (in v say) e ute: Ingestion re



)	Revision Date: 06.07.2024	-	0S Number: 32247-00014	Date of last issue: 06.04.2024 Date of first issue: 21.05.2019
			Result: negative	
Carc	inogenicity			
Not c	lassified based on avai	able	information.	
Com	ponents:			
Borio	acid:			
Spec	ies	:	Mouse	
Appli	cation Route	:	Ingestion	
	sure time	:	103 weeks	
Resu	lt	:	negative	
Benz	yl alcohol:			
Spec			Mouse	
	cation Route		Ingestion	
	sure time		103 weeks	
Meth			OECD Test Guid	eline 451
Resu			negative	
Prod Repro sessr	oductive toxicity - As-	:	May damage fer	ility. May damage the unborn child.
Com	ponents:			
Borio	c acid:			
	<b>: acid:</b> ts on fertility	:	Test Type: Three Species: Rat Application Rout Result: positive	-generation reproduction toxicity study e: Ingestion
Effec	ts on fertility ts on foetal develop-	:	Species: Rat Application Rout Result: positive	e: Ingestion
Effec Effec ment	ts on fertility ts on foetal develop- oductive toxicity - As-	:	Species: Rat Application Rout Result: positive Test Type: Embr Species: Rabbit Application Rout Result: positive Clear evidence c ity, based on ani	e: Ingestion
Effec Effec ment Repro	ts on fertility ts on foetal develop- oductive toxicity - As-	:	Species: Rat Application Rout Result: positive Test Type: Embr Species: Rabbit Application Rout Result: positive Clear evidence c ity, based on ani	e: Ingestion yo-foetal development e: Ingestion f adverse effects on sexual function and fe nal experiments., Clear evidence of advers



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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 NOAEL LOAEL Application Route Exposure time		Rat 100 mg/kg 334 mg/kg Ingestion 2 yr
Benzyl alcohol:		
Species NOAEL Application Route Exposure time Method	·· ·· ··	Rat 1.072 mg/l inhalation (dust/mist/fume) 28 Days OECD Test Guideline 412

#### Aspiration toxicity

Not classified based on available information.

### SECTION 12. ECOLOGICAL INFORMATION

### Components:

### Boric acid:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 74 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 102 mg/l Exposure time: 48 h	
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 52.4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	



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			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	rchneriella subcapitata (green algae)): 17.5 2 h est Guideline 201
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 34 Method: OECD T	
	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 27	nagna (Water flea)): 10.8 mg/l I d
	ity to microorganisms	:	EC10: 35.4 mg/l Exposure time: 3 Method: OECD T	
Calci	um Lactate Pentahydra	ate:		
Toxic	ity to fish	:	Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l 5 h on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 70 Method: OECD T	
			mg/l Exposure time: 70 Method: OECD T	
Toxic	ity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD T	h
Benz	yl alcohol:			
	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxic	ity to algae/aquatic	:	EC50 (Pseudokiro	chneriella subcapitata (green algae)): 770



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plants			mg/l	
plaine			Exposure time: 7	72 h Test Guideline 201
			mg/l Exposure time: 7	tirchneriella subcapitata (green algae)): 3 72 h Test Guideline 201
aquati	ty to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 51 mg/l 21 d
ic toxi	city)		Method: OECD	Test Guideline 211
Persis	stence and degradabili	ty		
<u>Comp</u>	oonents:			
Calciu	um Lactate Pentahydra	te:		
Biode	gradability	:		ily biodegradable. I on data from similar materials
Benzy	/l alcohol:			
Biode	gradability	:	Result: Readily I Biodegradation: Exposure time: 7	92 - 96 %
Bioac	cumulative potential			
Comp	onents:			
Boric	acid:			
Bioaco	cumulation	:	Bioconcentration	us carpio (Carp) n factor (BCF): <= 3.2 Test Guideline 305
	on coefficient: n- bl/water	:	log Pow: -1.09	
	um Lactate Pentahydra	te:		
	on coefficient: n- ol/water	:	log Pow: -0.698 Remarks: Calcu	lation
Benzy	/l alcohol:			
	on coefficient: n- ol/water	:	log Pow: 1.05	
	ity in soil			
	ta available			
	adverse effects ta available			
ino da	ia avaliaDie			



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### **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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

### : Not applicable Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable

Not applicable for product as supplied.

### **National Regulations**

EmS Code

Marine pollutant

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



rsion )	Revision Date: 06.07.2024	SDS Number: 4332247-00014	Date of last issue: 06.04.2024 Date of first issue: 21.05.2019
Pack Labe	idiary risk ing group Is hem Code	: Not applicable : Not applicable : Not applicable : Not applicable : Not applicable	e e
-	i <b>al precautions for u</b> oplicable	Iser	
CTION	15. REGULATORY I	NFORMATION	
Safet ture	y, health and enviro	nmental regulations/le	egislation specific for the substance or m
<b>ture</b> Thera	y, health and enviro peutic Goods (Poisor lard) Instrument	ns : Schedule 5 (Ple	egislation specific for the substance or m ease use the original publication to check for pecific conditions or threshold limits that mig emical)
<b>ture</b> Thera Stand	peutic Goods (Poiso	ns : Schedule 5 (Ple specific uses, s apply for this ch	ease use the original publication to check for pecific conditions or threshold limits that mig
ture Thera Stand Prohil	peutic Goods (Poisor ard) Instrument bition/Licensing Requ	ns : Schedule 5 (Ple specific uses, s apply for this ch irements	ease use the original publication to check for pecific conditions or threshold limits that mig emical) : There is no applicable prohibition, authorisation and restricted use requirements, including for carcino gens referred to in Schedule 10 or the model WHS Act and Regula-
ture Thera Stand Prohil The c AICS	peutic Goods (Poisor ard) Instrument bition/Licensing Requ	ns : Schedule 5 (Ple specific uses, s apply for this ch irements	<ul> <li>ease use the original publication to check for pecific conditions or threshold limits that mighemical)</li> <li>There is no applicable prohibition, authorisation and restricted use requirements, including for carcing gens referred to in Schedule 10 or the model WHS Act and Regulations.</li> </ul>
ture Thera Stand Prohil	peutic Goods (Poisor ard) Instrument bition/Licensing Requ	ns : Schedule 5 (Ple specific uses, s apply for this ch irements	<ul> <li>ease use the original publication to check for pecific conditions or threshold limits that mighemical)</li> <li>There is no applicable prohibition, authorisation and restricted use requirements, including for carcing gens referred to in Schedule 10 or the model WHS Act and Regulations.</li> </ul>

### Further information

Revision Date	:	06.07.2024
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

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 abbreviations						
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)				
ACGIH / TWA ACGIH / STEL		8-hour, time-weighted average 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 -



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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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