SAFETY DATA SHEET



Calcium Salt Formulation

Version 8.0	Revision Date: 2024/07/06		S Number: 32251-00013	Date of last issue: 2024/04/06 Date of first issue: 2019/05/21			
1. PRODL	JCT AND COMPANY ID	ENT	IFICATION				
Prod	uct name	:	Calcium Salt F	ormulation			
Manu	ufacturer or supplier's o	detai	ls				
Com	pany	:	MSD				
Addro	ess	:	126 E. Lincoln Rahway, New	Avenue Jersey U.S.A. 07065			
Telep	bhone	:	908-740-4000				
Emer	rgency telephone numbe	r :	1-908-423-600	0			
E-ma	il address	:	EHSDATASTEWARD@msd.com				
Reco	ommended use of the c	hem	ical and restric	tions on use			
	ommended use rictions on use	:	Veterinary proc Not applicable	duct			
2. HAZAR	DS IDENTIFICATION						
GHS	Classification						
Serio tatior	us eye damage/eye irri- า	:	Category 1				
Repr	oductive toxicity	:	Category 1B				
GHS	label elements						
Haza	rd pictograms	:					
Signa	al word	:	Danger	•			
Haza	rd 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 protection/ face protection.

:





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Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

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

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	 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	: Causes serious eye damage. May damage fertility. May damage the unborn child.



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dela Prot	yed ection of first-aiders	:	and use the rec	ders should pay attention to self-protection, ommended personal protective equipment
Note	es to physician	:		tial for exposure exists (see section 8). atically and supportively.
5. FIREF	IGHTING MEASURES			
Suita	able extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Uns med	uitable extinguishing	:	None known.	
	cific hazards during fire-	:	Exposure to cor	nbustion products may be a hazard to health.
	ardous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosp Boron oxides	ohorus
Spe ods	cific extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- d the surrounding environment. / to cool unopened containers. aged containers from fire area if it is safe to do
	cial protective equipment refighters	:	In the event of f	ire, wear self-contained breathing apparatus. rotective equipment.
6. ACCIE	DENTAL RELEASE MEA	SUF	ES	
tive	sonal precautions, protec- equipment and emer- cy procedures	:	Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).
Envi	ronmental precautions	:	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ined.
	nods and materials for ainment and cleaning up	:	For large spills, ment to keep m be pumped, sto Clean up remain bent. Local or national	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- Il regulations may apply to releases and dis- terial, as well as those materials and items



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		mine which re Sections 13 a	ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
Tech	nical measures		ing measures under EXPOSURE PERSONAL PROTECTION section.
Local	/Total ventilation		ntilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get on Do not breath Do not swallor Do not get in o Handle in acc practice, base sessment Keep containe	
Conditions for safe storage : Keep in properly labelled containers. Store locked up. Keep tightly closed.		ip.	
Materials to avoid :			vith the following product types:

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

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.



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	ter type protection	: Particulates	type					
Ma	aterial	: Chemical-re	: Chemical-resistant gloves					
Remarks		: Choose gloves to protect hands against chemicals d on the concentration and quantity of the hazardous s stance and specific to place of work. Breakthrough ti determined for the product. Change gloves often! Fo applications, we recommend clarifying the resistance chemicals of the aforementioned protective gloves w glove manufacturer. Wash hands before breaks and end of workday.						
Eye protection		: Wear the fol Chemical re	llowing personal protective equipment: sistant goggles must be worn. are likely to occur, wear:					
Skin and body protection		: Select appro resistance d potential. Skin contact	opriate protective clothing based on chemical lata and an assessment of the local exposure t must be avoided by using impervious protective lives, aprons, boots, etc).					
Hygie	ene measures	: If exposure eye flushing ing place. When using	to chemical is likely during typical use, provide systems and safety showers close to the work- do not eat, drink or smoke. minated clothing before re-use.					

9. PHYSICAL AND CHEMICAL PROPERTIES

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
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available

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		explosion limit / Upper Ibility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	1.12 - 1.18	
	Density	/	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	soluble	
	Solu	ubility in other solvents	:	insoluble Solvent: Ethanol	
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, dynamic	:	3.41 - 3.47 mPa.	S
	Visc	cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	Not applicable	

10. STABILITY AND REACTIVITY

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

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	OLOGICAL INFORMA		N	
Inforr expos	nation on likely routes c sure	of :	Inhalation Skin contact Ingestion Eye contact	
Acut	e toxicity		,	
Not c	lassified based on avail	able	information.	
Com	ponents:			
	acid:			
Acute	e oral toxicity	:	LD50 (Rat): 3,4	50 mg/kg
Acute	e inhalation toxicity	:		4 h
Acute	e dermal toxicity	:	LD50 (Rabbit): Assessment: Th toxicity	> 2,000 mg/kg le substance or mixture has no acute derma
Calci	um Lactate Pentahydı	rate:		
	e oral toxicity	:		000 mg/kg A Test Guideline OPP 81-1 d on data from similar materials
Acute	inhalation toxicity	:		4 h
Acute	e dermal toxicity	:	LD50 (Rabbit): : Remarks: Based	> 2,000 mg/kg d on data from similar materials
Benz	yl alcohol:			
	e oral toxicity	:	LD50 (Rat): 1,62	20 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 4. Exposure time:	4 h

Skin corrosion/irritation

Not classified based on available information.

Test atmosphere: dust/mist

Method: OECD Test Guideline 403



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Com	ponents:					
Borio	c acid:					
Spec		:	Rabbit			
Resu	It	:	No skin irritation			
Calci	ium Lactate Pentahy	drate:				
Spec		:	Rabbit	Y 404		
Meth Resu		:	OECD Test Guid	eline 404		
Rema		:	No skin irritationBased on data from similar materials			
Benz	yl alcohol:					
Spec		:	Rabbit			
Meth		:	: OECD Test Guideline 404			
Resu	It	:	No skin irritation			
	ous eye damage/eye		on			
	es serious eye damag	ge.				
	ponents:					
	c acid:					
Spec Resu		:	Rabbit No eye irritation			
Calci	ium Lactate Pentahy	drate:				
Spec	ies	:	Chicken eye			
Rema	arks	:	Based on data fro	om similar materials		
Resu	lt	:	Irreversible effect	ts on the eye		
Benz	yl alcohol:					
Spec		:	Rabbit			
Resu Meth		:		reversing within 21 days		
weth	oa	:	OECD Test Guid	eline 405		
Resp	piratory or skin sensi	tisatio	on			
	sensitisation lassified based on ava	ailable	information.			
-	iratory sensitisation lassified based on ava		information.			
	ponents:		-			
Borio	c acid:					
Test		:	Buehler Test			



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Expo Spec Meth		: Skin contact : Guinea pig : OECD Test 0	Guideline 406					
Resu	llt	: negative	negative					
Calc	ium Lactate Pentahy	vdrate:						
	llt	: Buehler Test : Skin contact : Guinea pig : negative : Based on dat	ta from similar materials					
Benz	yl alcohol:							
Test Expo Spec Meth Resu	sure routes ies od	: Maximisation : Skin contact : Guinea pig : OECD Test C : negative						
	n cell mutagenicity classified based on av	ailable information.						
<u>Com</u>	ponents:							
	c acid: otoxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) tive					
		Test Type: In Result: equiv	vitro mammalian cell gene mutation test ocal					
		Test Type: C Result: negat	hromosome aberration test in vitro tive					
Gend	otoxicity in vivo	cytogenetic a Species: Mou	use coute: Ingestion					
Benz	yl alcohol:							
Geno	otoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) tive					
Genc	otoxicity in vivo	cytogenetic a Species: Mou	use context and the second s					



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Not cl	nogenicity assified based on ava ponents:	ilable informa	ation.	
	es cation Route sure time	: Mouse : Ingest : 103 w : negati	tion veeks	
Benzy	yl alcohol:			
Speci Applic	es cation Route sure time od	: Mouse : Ingest : 103 w : OECD : negati	tion /eeks) Test Guid	eline 451
	oductive toxicity lamage fertility. May c	lamage the u	nborn child	
Produ Repro sessm	ductive toxicity - As-	: May d	lamage fert	ility. May damage the unborn child.
<u>Comp</u>	oonents:			
Boric	acid:			
Effect	s on fertility	Specie Applic	Fype: Three es: Rat cation Route t: positive	-generation reproduction toxicity study e: Ingestion
Effect ment	s on foetal develop-	Specie Applic	Type: Embr es: Rabbit cation Route t: positive	vo-foetal development
Repro sessm	oductive toxicity - As- nent	ity, ba	ised on anir	f adverse effects on sexual function and fe nal experiments., Clear evidence of adver pment, based on animal experiments.
Benzy	yl alcohol:			
-	s on fertility	Specie Applic Result	es: Rat cation Route t: negative	y/early embryonic development e: Ingestion on data from similar materials
Effect	s on foetal develop-	: Test T	Type: Embr es: Mouse	/o-foetal development



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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
Exposure time	:	2 yr

Benzyl alcohol:

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

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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 NOEC (Pseudokirchneriella subcapitata (green algae)): 17.5 mg/l Exposure time: 72 h



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			Method: OECD Te	est Guideline 201	
Toxicity to fish (Chronic tox- icity)		:	: NOEC (Danio rerio (zebra fish)): 6.4 mg/l Exposure time: 34 d Method: OECD Test Guideline 210		
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 10.8 mg/l Exposure time: 21 d		
ic toxi Toxic	ity) ity to microorganisms	:	EC10: 35.4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Calci	um Lactate Pentahydra	te:			
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	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials		
	Toxicity to algae/aquatic plants		ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l Exposure time: 70 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials		
		NOEC (Pseudokirchneriella subcapitata (green alga mg/l Exposure time: 70 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials) h est Guideline 201	
Toxic	ity to microorganisms	:	: EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Benz	yl alcohol:				
Toxic	ity to fish	:	: LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To		



ersion .0	Revision Date: 2024/07/06		OS Number: 32251-00013	Date of last issue: 2024/04/06 Date of first issue: 2019/05/21
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 31(72 h Test Guideline 201
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time:	a magna (Water flea)): 51 mg/l 21 d Test Guideline 211
Persi	stence and degradabili	ty		
<u>Comp</u>	oonents:			
	um Lactate Pentahydra	ite:		
Biode	gradability	:		dily biodegradable. d on data from similar materials
Benzy	yl alcohol:			
Biode	gradability	:	Result: Readily Biodegradation Exposure time:	: 92 - 96 %
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Boric	acid:			
Bioac	cumulation	:	Bioconcentratio	us carpio (Carp) n factor (BCF): <= 3.2 Test Guideline 305
	on coefficient: n- ol/water	:	log Pow: -1.09	
	um Lactate Pentahydra			
	on coefficient: n- ol/water	:	log Pow: -0.698 Remarks: Calcu	
Benzy	yl alcohol:			
	on coefficient: n- ol/water	:	log Pow: 1.05	
	l ity in soil ata available			
	r adverse effects			



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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.

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) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class	:	Not applicable Not applicable Not applicable

Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Special precautions for user

Not applicable



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15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances
Hazardous to Health

Hazardous substances that must be registered	:	Not applicable
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Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Boric acid control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

Revision Date	:	2024/07/06
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 this document by two vertical lines.

Date format

: yyyy/mm/dd



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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 -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.

ID / EN