

Version 9.0	Revision Date: 06.07.2024		9S Number: 8887-00023		sue: 23.05.2024 sue: 08.04.2016
Section	1: Identification				
Proc	duct name	:	Cyclosporine Fo	rmulation	
Othe	er means of identification	:	Optimmune (A00 OPTIMMUNE O		INTMENT (51551)
Man	ufacturer or supplier's	deta	ils		
Con	npany	:	MSD		
Add	ress	:	33 Whakatiki Str Upper Hutt - Nev		g 908
Tele	phone	:	0800 800 543		
Eme	ergency telephone numbe	er :	0800 764 766 (0 CHEMCALL)	800 POISON)	0800 243 622 (0800
E-m	ail address	:	EHSDATASTEV	VARD@msd.co	m
Rec	ommended use of the c	hem	nical and restricti	ons on use	
	ommended use trictions on use	:	Veterinary produ Not applicable	ıct	
Section	2: Hazard identification				
GHS	S Classification				
Card	cinogenicity	:	Category 1		
Rep	roductive toxicity	:	Category 1		
GHS	S label elements				
Haz	ard pictograms	:			

 Signal word
 : Danger

 Hazard statements
 : H350 May cause cancer. H360Df May damage the unborn child. Suspected of damaging fertility.

 Precautionary statements
 : Prevention: P201 Obtain special instructions before use. P280 Wear protective gloves/ protective clothing/ eye protec





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tion/ face protection.

Response:

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

Chemical name	CAS-No.	Concentration (% w/w)
Petrolatum	8009-03-8	>= 50 -< 70
Cyclosporine	59865-13-3	>= 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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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	:	$\underline{-}$, $\underline{-}$
Notes to physician	:	Treat symptomatically and supportively.



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Section 5: Fire-fighting measures

Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	•	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Section 6: Accidental release measures

Personal precautions, protec- tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and storage



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Tecl	hnical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.		
Loca	al/Total ventilation	: If sufficient ver ventilation.	ntilation is unavailable, use with local exhaust		
Adv	ice on safe handling	: Do not get on Do not breathe Do not swallow Avoid contact Handle in acco practice, base sessment Keep containe			
Hyg	iene measures	flushing syster place. When using de Wash contami The effective of engineering co appropriate de industrial hygio	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. Inated clothing before re-use. Operation of a facility should include review of portrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.		
Con	ditions for safe storage	: Keep in prope Store locked u Keep tightly cl	rly labelled containers. p.		
Mate	erials to avoid		vith the following product types:		

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Petrolatum	8009-03-8	WES-TWA (Mist)	5 mg/m3	NZ OEL
		WES-STEL (Mist)	10 mg/m3	NZ OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Cyclosporine	59865-13-3	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm ²	Internal

Components with workplace control parameters

Engineering measures

: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).



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		design and o protect produ Containment are required t	
Perse	onal protective equip	ment	
Fil	iratory protection Iter type protection	sure assessm ommended g	ocal exhaust ventilation is not available or exponent demonstrates exposures outside the rec- uidelines, use respiratory protection. rticulates and organic vapour type
M	aterial	: Chemical-res	istant gloves
Re	emarks	: Consider dou	ble alovina.
Eye p	protection	: Wear safety of If the work en mists or aero Wear a faces	plasses with side shields or goggles. wironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a lirect contact to the face with dusts, mists, or
Skin a	and body protection	Additional bo task being pe posable suits	or laboratory coat. dy garments should be used based upon the rformed (e.g., sleevelets, apron, gauntlets, dis-) to avoid exposed skin surfaces. ate degowning techniques to remove potentially I clothing.

Section 9: Physical and chemical properties

Appearance	:	ointment
Colour	:	colourless, to, light yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available

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	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available	
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	e characteristics e size	:	Not applicable	

Section 10: Stability and reactivity

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

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Ехро	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	ble	information.	
Com	ponents:			
	platum: e oral toxicity	:		000 mg/kg Test Guideline 401 I on data from similar materials
Acute	e dermal toxicity	:	Assessment: Th toxicity	000 mg/kg Test Guideline 402 e substance or mixture has no acute dermal d on data from similar materials
-	osporine:			
Acute	e oral toxicity	:	LD50 (Rat): 1,48	30 mg/kg
			LD50 (Mouse): 2	2,329 mg/kg
Acute	e inhalation toxicity	:	Remarks: No da	ta available
Acute	e dermal toxicity	:	Remarks: No da	ta available
	e toxicity (other routes of nistration)	:	LD50 (Mouse): Application Rout	
			LD50 (Rat): 25.8 Application Rout	
	corrosion/irritation lassified based on availa	ble	information.	
Com	ponents:			
Petro	platum:			
Spec Meth		:	Rabbit OECD Test Guid	deline 404
Resu Rema	lt	:	No skin irritation	
Cycle	osporine:			
Rema	arks	:	No data availabl	e



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			May irritate skir).
	ous eye damage/eye lassified based on av			
Com	ponents:			
Petro	platum:			
Spec Resu Metho Rema	ies It od	:	Rabbit No eye irritatior OECD Test Gu Based on data	
Cvclo	osporine:			
Rema	•	:	No data availat May irritate eye	
Resp	iratory or skin sens	itisatio	n	
Skin	sensitisation			
Not c	lassified based on av	ailable	information.	
-	iratory sensitisation lassified based on av		information.	
Com	ponents:			
Petro	platum:			
Test		:	Buehler Test	
	sure routes	:	Skin contact	
Speci Resu		:	Guinea pig negative	
Rema		:	Based on data	from similar materials
				nom similar materials
Cyclo	osporine:			
Cyclo Rema	-	:	May cause sen	sitisation of susceptible persons.
Rema	-	:	May cause sen	
Rema Chro Germ	nic toxicity n cell mutagenicity	: ailable		
Rema Chro Germ Not c	nic toxicity n cell mutagenicity lassified based on av	: ailable		
Rema Chro Germ Not c <u>Com</u>	arks nic toxicity n cell mutagenicity lassified based on av ponents:	: ailable		
Rema Chro Germ Not c <u>Com</u>	nic toxicity n cell mutagenicity lassified based on av	: ailable :	information. Test Type: Chr Result: negativ	sitisation of susceptible persons.



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		Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials
-	esporine: toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster cells Result: negative
		Test Type: sister chromatid exchange assay Result: positive
Genot	toxicity in vivo	: Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative
		Test Type: Chromosomal aberration Species: Chinese hamster Cell type: Bone marrow Result: negative
		Test Type: Chromosomal aberration Species: Mouse Result: negative
	nogenicity ause cancer.	
Comp	oonents:	
Speci Applic	ation Route	: Rat : Ingestion : 2 Years : negative
Speci Applic Expos LOAE Resul	cation Route sure time L	 Mouse Oral 78 weeks 4 mg/kg body weight positive Liver, lymphatic system
Speci	es	: Rat



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Exp LO/ Res	olication Route losure time AEL sult get Organs	: Oral : 2 Years : 0.5 mg/kg bod : positive : Pancreas	y weight
Res Tar	ecies sult get Organs narks	: Humans : May cause ca : Immune syste : Information ta	
Car mei	cinogenicity - Assess- nt	: May cause ca	ncer.
May	productive toxicity / damage the unborn child nponents:	d. Suspected of dan	naging fertility.
Pet	rolatum:		
Effe	ects on fertility	test Species: Rat Application Ro Result: negati	
Effe mer	ects on foetal develop- nt	Species: Rat Application Ro Result: negation	nbryo-foetal development oute: Skin contact ve ed on data from similar materials
Сус	closporine:		
•	ects on fertility	Species: Rat Application Ro General Toxic	e-generation reproduction toxicity study oute: Oral ity F1: LOAEL: 15 mg/kg body weight ects on fertility, Effect on reproduction capacity
			males oute: Subcutaneous EL: 10 mg/kg body weight
Effe mei	ects on foetal develop- nt	Species: Rat Application Ro Developmenta Result: Embry	nbryo-foetal development oute: Oral al Toxicity: LOAEL: 30 mg/kg body weight otoxic effects and adverse effects on the off- etected only at high maternally toxic doses, Re-



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		duced foetal v ic effects	veight, foetal mortality, Retardations, Teratoge
		Species: Rabl Developmenta Result: Embry spring were de	nbryo-foetal development bit al Toxicity: LOAEL: 100 mg/kg body weight rotoxic effects and adverse effects on the off- etected only at high maternally toxic doses, Re weight, foetal mortality, Retardations, Teratoge
		Developmenta Target Organs	bit bute: Subcutaneous al Toxicity: LOAEL: 10 mg/kg body weight
		Developmenta Target Organs	oute: Intravenous al Toxicity: LOAEL: 12 mg/kg body weight s: Heart
		Result. Viscer	al malformations
	Γ - single exposure lassified based on ava		al malformations
Not c STO	lassified based on ava	ailable information. 'e	al malformations
Not c STO Not c	lassified based on available	ailable information. 'e	al malformations
Not c STOT Not c Com Cycle Targe	lassified based on ava - repeated exposur lassified based on ava	ailable information. e ailable information. : Kidney, Liver,	al malformations Immune system ge to organs through prolonged or repeated
Not c STOT Not c Com Cycle Targe Asses	lassified based on ava F - repeated exposur lassified based on ava ponents: osporine: et Organs	ailable information. e ailable information. : Kidney, Liver, : Causes dama	Immune system
Not c STOT Not c Com Cycle Targe Asses Repe	lassified based on availassified based on ava	ailable information. e ailable information. : Kidney, Liver, : Causes dama	Immune system
Not c STOT Not c Com Cycle Targe Asses Repe	lassified based on availassified based on availast ponents: ponents: posporine: et Organs ssment eated dose toxicity	ailable information. e ailable information. : Kidney, Liver, : Causes dama	Immune system
Not c STOT Not c Com Cycle Targe Asses Repe Com Speci NOAI Applie	lassified based on availassified based on availabser of a sector of the sector	ailable information. e ailable information. : Kidney, Liver, : Causes dama	Immune system
Not c STOT Not c Com Targe Asses Repe Com Speci NOAI Applie Expos	lassified based on availassified based on ava	ailable information. e ailable information. : Kidney, Liver, : Causes dama exposure. : Rat : 5,000 mg/kg : Ingestion	Immune system



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e E	LOAEL Applicati Exposur Target C Symptor	Organs	:	45 mg/kg Oral 90 Days Kidney, Liver, Imn hair loss	nune system
ז ק ד	Species NOAEL LOAEL Applicati Exposur Target C Symptor	ion Route e time Drgans	:	Monkey 20 mg/kg 60 mg/kg Oral 90 Days Immune system Gastrointestinal d	isturbance, Liver disorders, Kidney disorders
L A E	Species LOAEL Applicati Exposur Target C Symptor	ion Route e time Drgans	:	Dog 15 mg/kg Oral 12 Months Immune system Changes in the bl hair loss	ood count, Kidney disorders, Skin disorders,
1	Not clas	ion toxicity sified based on availa nce with human exp			
C I S E	Compoi Cyclosp Inhalatic Skin cor Eye con Ingestion	oorine: on htact tact	:	Remarks: May irri Symptoms: Eye ir Symptoms: Kidne	
Secti	ion 12: I	Ecological informati	on		
E	Ecotoxi	city			
<u>(</u>	Compoi	nents:			
	Petrolat Toxicity		:	Exposure time: 96 Test substance: V Method: OECD Te	Vater Accommodated Fraction
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 10,000 mg/l 3 h Vater Accommodated Fraction



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		Rema	ks: Based on data from similar materials
Toxici plants	ty to algae/aquatic	100 m Expos Test s Metho	(Pseudokirchneriella subcapitata (green algae)): >= g/l ure time: 72 h ubstance: Water Accommodated Fraction d: OECD Test Guideline 201 rks: Based on data from similar materials
	ty to daphnia and other c invertebrates (Chron- city)	Expos Test s	(Daphnia magna (Water flea)): 10 mg/l ure time: 21 d ubstance: Water Accommodated Fraction rks: Based on data from similar materials
Persis	stence and degradabili	ty	
Comp	oonents:		
Petro	latum:		
Biode	gradability	Biode Expos Metho	: Not readily biodegradable. gradation: 31 % ure time: 28 d d: OECD Test Guideline 301F rks: Based on data from similar materials
Bioac	cumulative potential		
No da	ta available		
	ity in soil ta available		
	adverse effects ta available		

Biopodal motilodo		
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	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable



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Subci	dianyrick		Not applicable	
	diary risk ng group	:	Not applicable Not applicable	
Label		÷	Not applicable	
	onmentally hazardous	:	no	
ΙΑΤΑ-	DGR			
UN/IC) No.	:	Not applicable	
Prope	er shipping name	:	Not applicable	
Class		:	Not applicable	
	diary risk	:	Not applicable	
	ng group	:	Not applicable	
Label	s ng instruction (cargo	÷	Not applicable Not applicable	
aircra	S	:	Not applicable	
	ng instruction (passen-	:	Not applicable	
ger ai		•		
IMDG	-Code			
	umber	:	Not applicable	
Prope	er shipping name	:	Not applicable	
Class		:	Not applicable	
	diary risk	:	Not applicable	
	ng group	:	Not applicable	
Label		:	Not applicable	
EmS		:	Not applicable	
	e pollutant	·	Not applicable	
		-		POL 73/78 and the IBC Code
Not a	oplicable for product as	supp	blied.	
Natio	nal Regulations			
NZS	5433			
UN n	lumber	:	Not applicable	
	er shipping name	:	Not applicable	
Class		:	Not applicable	
	idiary risk	:	Not applicable	
	ing group	:	Not applicable	
Labe	is :hem Code	÷	Not applicable	
nazo		-	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

HSR100757 Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard 2020

Tolerable Exposure Limits (TEL) Not applicable



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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 Agency, 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 NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants			
ACGIH / TWA NZ OEL / WES-TWA NZ OEL / WES-STEL	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average Workplace Exposure Standard - 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 Or-

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ganisation 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