

Version 3.0	Revision Date: 06.07.2024		S Number: 3888-00022	Date of last issue: 16.05.2024 Date of first issue: 08.04.2016
Section 1	: Identification			
Prod	uct identifier	:	Cyclosporine Fo	ormulation
Othe tion	r means of identifica-	:	Optimmune (A00 OPTIMMUNE O	07869) PHTHALMIC OINTMENT (51551)
Reco	ommended use of the cl	nem	ical and restricti	ons on use
	mmended use rictions on use	:	Veterinary produ Not applicable	uct
Manu	ufacturer or supplier's c	leta	ils	
Com	bany	:	MSD	
Addr	ess	:	50 Tuas West D Singapore - Sin	
Telep	bhone	:	+1-908-740-400	0
Emei	gency telephone number	· :	65 6697 2111 (2	24/7/365)
E-ma	il address	:	EHSDATASTEV	VARD@msd.com
Clas	: Hazard identification sification of the substan	nce	<b>or mixture</b> Category 1B	
		_		
	Label elements, includ rd pictograms	ing :	precautionary st	atements
	1 0			
Signa	al word	:	Danger	
Haza	rd statements	:	H350 May cause	e cancer.
Preca	autionary statements	:	P202 Do not har and understood. P280 Wear prote	ecial instructions before use. ndle until all safety precautions have been rea ective gloves/ protective clothing/ eye protec- tion/ hearing protection.
			Resnonse <sup>.</sup>	

### Response:





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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 -< 0.3

#### Section 4: First-aid measures

Description of necessary first-aid measures						
General advice	In the case of accident or if you feel unwell, seek me vice immediately. When symptoms persist or in all cases of doubt see 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 of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	and plenty				
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops and persis	sts.				
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.					
Most important symptoms	effects, both acute and delayed					
Risks Protection of first-aiders	May cause cancer. First Aid responders should pay attention to self-pro and use the recommended personal protective equip when the potential for exposure exists (see section 8	pment				
Indication of any immediate	dical attention and special treatment needed					
Treatment	Treat symptomatically and supportively.					



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## Section 5: Fire-fighting measures

:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
:	None known.
n th	e substance or mixture
:	Exposure to combustion products may be a hazard to health.
:	Carbon oxides
	: nth :

### Special protective actions for fire-fighters

Special protective equipment for firefighters Specific extinguishing meth- ods		In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 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.
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### Section 6: Accidental release measures

•	uipment and emergency procedures
Personal precautions :	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	
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 containn	nent and cleaning up
Methods for 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



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		mine which Sections 13	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 stora	ge			
Preca	autions for safe hand	ling			
Tech	nical measures		ering measures under EXPOSURE S/PERSONAL PROTECTION section.		
Local	/Total ventilation		ventilation is unavailable, use with local exhaust		
Advic	e on safe handling	Do not brea Do not swal Avoid conta Handle in ad practice, bas sessment Keep contai	ct with eyes. ccordance with good industrial hygiene and safety sed on the results of the workplace exposure as- ner tightly closed. o prevent spills, waste and minimize release to the		
Hygie	ene measures	flushing sys place. When using Wash conta The effective engineering appropriate industrial hy	to chemical is likely during typical use, provide eye tems and safety showers close to the working do not eat, drink or smoke. minated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.		
Cond	litions for safe storag	je, including any i	ncompatibilities		
Cond	itions for safe storage	Store locked Keep tightly			
Mater	rials to avoid	: Do not store	<ul> <li>Do not store with the following product types: Strong oxidizing agents</li> </ul>		

## Section 8: Exposure controls/personal protection

## **Control parameters**

### Occupational Exposure Limits

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	



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		exposure)	concentration	
Petrolatum	8009-03-8	PEL (long term) (Mist)	5 mg/m3	SG OEL
		PEL (short term) (Mist)	10 mg/m3	SG 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 <sup>2</sup>	Internal

Appropriate engineering control measures	:	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Individual protection measured	res	s, such as personal protective equipment (PPE)
Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	:	Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving.
ction 9: Physical and chemica	l p	roperties

## Section 9: Physical and chemical properties

Appearance	:	ointment
Colour	:	colourless, to, light yellow

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	Odour		:	No data available	3
	Odour T	hreshold	:	No data available	)
	рН		:	No data available	
	Melting	point/freezing point	:	No data available	)
	Initial bo range	piling point and boiling	:	No data available	)
	Flash po	pint	:	No data available	)
	Evapora	ation rate	:	No data available	)
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	No data available	)
		xplosion limit / Upper pility limit	:	No data available	
		xplosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	No data available	)
	Relative	vapour density	:	No data available	)
	Relative	density	:	No data available	)
	Density		:	No data available	)
	Solubilit Wate	y(ies) er solubility	:	No data available	9
	Partition	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decomp	oosition temperature	:	No data available	
	Viscosit Visco	y osity, kinematic	:	No data available	)
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	g properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	Not applicable	



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### Section 10: Stability and reactivity

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

## Section 11: Toxicological information

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

#### Acute toxicity

Not classified based on available information.

#### **Components:**

#### Petrolatum:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials	
Acute dermal toxicity :		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials	
Cyclosporine:			
Acute oral toxicity	:	LD50 (Rat): 1,480 mg/kg	
		LD50 (Mouse): 2,329 mg/kg	
Acute inhalation toxicity	:	Remarks: No data available	
Acute dermal toxicity	:	Remarks: No data available	
Acute toxicity (other routes of administration)	:	LD50 (Mouse): 107 mg/kg Application Route: Intravenous	
		LD50 (Rat): 25.8 mg/kg Application Route: Intravenous	



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#### Skin corrosion/irritation

Not classified based on available information.

#### **Components:**

#### Petrolatum:

Method :	Rabbit OECD Test Guideline 404 No skin irritation
	Based on data from similar materials
Remarks .	Dased on data nom similar materials

#### Cyclosporine:

Remarks

: No data available May irritate skin.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

#### Petrolatum:

Species :	Rabbit
Result :	No eye irritation
Method :	OECD Test Guideline 405
Remarks :	Based on data from similar materials

#### Cyclosporine:

Remarks

: No data available May irritate eyes.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### Petrolatum:

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

#### Cyclosporine:

Remarks

: May cause sensitisation of susceptible persons.



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	n cell mutagenicity			
Not c	lassified based on av	vailable	information.	
Com	ponents:			
	olatum:			
Geno	toxicity in vitro	:	Result: negati	rromosome aberration test in vitro ve sed on data from similar materials
Geno	toxicity in vivo	:	cytogenetic as Species: Mou Application Ro Method: OEC Result: negati	se bute: Intraperitoneal injection D Test Guideline 474
Cyclo	osporine:			
Geno	toxicity in vitro	:	Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
				vitro mammalian cell gene mutation test Chinese hamster cells ve
			Test Type: sis Result: positiv	ter chromatid exchange assay re
Geno	toxicity in vivo	:	Test Type: Mi Species: Mou Application Ro Result: negati	oute: Oral
			Test Type: Ch Species: Chin Cell type: Bor Result: negati	e marrow
			Test Type: Ch Species: Mou Result: negati	
	i <b>nogenicity</b> cause cancer.			
-	ponents:			
-				
Speci Applic	Datum: ies cation Route sure time	:	Rat Ingestion 2 Years	



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Res	ult	:	negative				
-	losporine:		Ma				
	cies lication Route	:	Mouse Oral				
	osure time	:	78 weeks				
LOA		:	4 mg/kg body	weight			
Res Tar	get Organs	:	: positive : Liver, lymphatic system				
		•	Error, lymphat				
	cies	:	Rat Oral				
	lication Route osure time	:	2 Years				
LOA		:	0.5 mg/kg bod	y weight			
Res		:	positive				
Tarę	get Organs	:	Pancreas				
	cies	:	Humans				
Res		:	May cause car				
	Target Organs Remarks		Immune system	m, Skin ken from reference works and the literature.			
I Con	nanto	•	mornation ta				
	Carcinogenicity - Assess- ment		May cause ca	ncer.			
Rep	productive toxicity						
Not	classified based on ava	ilable	information.				
Con	nponents:						
Petr	rolatum:						
Effe	cts on fertility	:	test Species: Rat Application Ro Result: negativ				
Effe	cts on foetal develop-	:		bryo-foetal development			
mer	nt		Species: Rat	ute: Skin contact			
			Result: negativ	ute: Skin contact /e			
				ed on data from similar materials			
Cvc	losporine:						
-	cts on fertility	:	Species: Rat Application Ro General Toxic	e-generation reproduction toxicity study ute: Oral ity F1: LOAEL: 15 mg/kg body weight acts on fertility, Effect on reproduction capacity			
			Test Type: Fei	tility			



		Species: Rat, ma Application Rout Fertility: LOAEL:	
ment	n foetal develop-	Result: Reduced : Test Type: Embr Species: Rat Application Rout Developmental T Result: Embryoto spring were deter duced foetal wei ic effects Test Type: Embr Species: Rabbit	: 10 mg/kg body weight d fertility ryo-foetal development te: Oral Toxicity: LOAEL: 30 mg/kg body weight oxic effects and adverse effects on the off- ected only at high maternally toxic doses, Re ight, foetal mortality, Retardations, Teratoger ryo-foetal development
		Result: Embryote spring were dete duced foetal wei ic effects Test Type: Deve Species: Rabbit Application Rout	te: Subcutaneous Toxicity: LOAEL: 10 mg/kg body weight Kidney
		Test Type: Deve Species: Rat Application Rout	elopment te: Intravenous Toxicity: LOAEL: 12 mg/kg body weight Heart

### STOT - repeated exposure

Not classified based on available information.

#### **Components:**

## Cyclosporine:

Target Organs	:	Kidney, Liver, Immune system
Assessment		Causes damage to organs through prolonged or repeated
		exposure.



rsion )	Revision Date: 06.07.2024	SDS Number: 608888-00022	Date of last issue: 16.05.2024 Date of first issue: 08.04.2016
Rene	ated dose toxicity		
-	ponents:		
	platum:		
Spec		: Rat	
NOAI		: 5,000 mg/kg	
	cation Route	: Ingestion	
Expo	sure time	: 2 yr	
Cyclo	osporine:		
Spec		: Rat	
NOAI		: 14 mg/kg	
LOAE		: 45 mg/kg	
	cation Route	: Oral : 90 Days	
	sure time et Organs		Immune system
Symp		: hair loss	
Spec		: Monkey	
NOA		: 20 mg/kg	
LOAE	∠ cation Route	: 60 mg/kg : Oral	
	sure time	: 90 Days	
	et Organs	: Immune syster	n
Symp			al disturbance, Liver disorders, Kidney disorde
Spec		: Dog	
LOAE		: 15 mg/kg	
	cation Route sure time	: Oral : 12 Months	
	et Organs	: Immune syster	n
	otoms		blood count, Kidney disorders, Skin disorder
Acnie	ration toxicity		
	lassified based on av	ailable information.	
Expe	rience with human e	exposure	
<u>Com</u>	ponents:		
-	osporine:	-	
Inhala			cause irritation of respiratory tract.
Skin	contact	: Remarks: May	irritate skin.

Skin contact : Remarks: May irritate skin. Eve contact : Symptoms: Eve irritation, eve pain

Eye contact	. Symptoms. Eye initiation, eye pain
Ingestion	: Symptoms: Kidney disorders, Tremors, hypertension, blood
-	effects, Gastrointestinal disturbance



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## Section 12: Ecological information

Toxicity		
Components:		
Petrolatum:		
Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Persistence and degradability	ty	
Components:		
Petrolatum: Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Based on data from similar materials
<b>Bioaccumulative potential</b> No data available		
<b>Mobility in soil</b> No data available		
Other adverse effects No data available		



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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 UN proper shipping name Transport hazard class(es) 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. UN 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
<b>IMDG-Code</b> UN number UN proper shipping name	:	Not applicable Not applicable

UN 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 IMO instruments

Not applicable for product as supplied.

### Special precautions for user

Not applicable



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#### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.
Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations
Fire Safety (Petroleum and Flammable Materials) : Not applicable
Fire Safety (Petroleum and Flammable Materials) : Not applicable
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/

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 SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.			
		8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term Permissible Exposure Level (PEL) Short Term			

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;

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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.

SG / EN