



Version 7.1	Revision Date: 30.09.2023		S Number: 2417-00018		sue: 04.04.2023 sue: 07.01.2016	
Section 1	l: Identification					
Prod	uct name	:	Florfenicol Sol	id Formulation		
	<b>ufacturer or supplier's d</b> pany	eta :	i <b>ls</b> MSD			
Addr	ess	:	33 Whakatiki Street - Private Bag 908 Upper Hutt - New Zealand			
Tele	phone	:	0800 800 543			
Eme	rgency telephone number	:	0800 764 766 CHEMCALL)	(0800 POISON)	0800 243 622 (0800	
E-ma	ail address	:	EHSDATASTE	WARD@msd.cor	n	
Reco	ommended use of the ch	nem	ical and restric	tions on use		
	ommended use rictions on use	:	Veterinary pro Not applicable			
Section 2	2: Hazard identification					
GHS	Classification					
Repr	oductive toxicity	:	Category 2			
	sific target organ toxicity - ated exposure	:	Category 1 (Li der)	ver, Brain, Testis,	Spinal cord, Blood, gallblad-	
	ardous to the aquatic conment - acute hazard	:	Category 1			
	ardous to the aquatic conment - chronic hazard	:	Category 1			
GHS	label elements					
Haza	ard pictograms	:		¥_		

Signal word

Hazard statements

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H372 Causes damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated expo-

: Danger



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		sure. H410 Very to:	xic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not l and understo P264 Wash s P270 Do not o P273 Avoid re	kin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment. rotective gloves/ protective clothing/ eye protec-
		<b>Response:</b> P308 + P313 attention. P391 Collect	IF exposed or concerned: Get medical advice/ spillage.
		<b>Storage:</b> P405 Store lo	ocked up.
		<b>Disposal:</b> P501 Dispose disposal plant	e of contents/ container to an approved waste

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Florfenicol	73231-34-2	>= 50 -< 70

#### Section 4: First-aid measures

General advice	V V	n the case of accident or if you feel unwell, seek medical ad- /ice immediately. Nhen symptoms persist or in all cases of doubt seek medical advice.
If inhaled In case of skin contact	( : li c	f inhaled, remove to fresh air. Get medical attention. n case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes.
		Get medical attention.



f eye contact ved	Thoroughly cl : If in eyes, rins	) before reuse. ean shoes before reuse.					
-	Thoroughly cl : If in eyes, rins						
-	: If in eyes, rins						
ved		: If in eyes, rinse well with water.					
	: If swallowed, Get medical a						
ortant symptoms ts, both acute and	: Suspected of unborn child. Causes dama exposure.	horoughly with water. damaging fertility. Suspected of damaging the ge to organs through prolonged or repeated					
n of first-aiders	the skin. Dust contact v : First Aid respo and use the re	Dust contact with the eyes can lead to mechanical irritation. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment					
physician		when the potential for exposure exists (see section 8). Treat symptomatically and supportively.					
re-fighting measure	S						
extinguishing media	Carbon dioxid						
le extinguishing	: None known.						
nazards during fire-	concentration potential dust	ing dust; fine dust dispersed in air in sufficient s, and in the presence of an ignition source is a explosion hazard. ombustion products may be a hazard to health.					
us combustion prod-							
extinguishing meth-	cumstances a Use water spr Remove unda so.	hing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. Imaged containers from fire area if it is safe to c					
hters							
	n of first-aiders physician re-fighting measure extinguishing media le extinguishing mazards during fire- us combustion prod- extinguishing meth- extinguishing meth- protective equipment hters n Code cidental release me	Causes dama exposure. Contact with of the skin. Dust contact with of the skin. Treat symptor and use the re- when the pote and use the re- and					

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.



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			pose of contaminated wash water. es should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	tainer for disport Avoid dispersa with compress Dust deposits es, as these m leased into the Local or nation posal of this m employed in th mine which reg Sections 13 an	l of dust in the air (i.e., clearing dust surfaces
Section 7	: Handling and storage		
Local	nical measures /Total ventilation æ on safe handling	<ul> <li>causing an exp Provide adequ and bonding, c</li> <li>Use only with a</li> <li>Do not breather Do not swallow Avoid contact</li> </ul>	ate precautions, such as electrical grounding or inert atmospheres. adequate ventilation. e dust. /. with eyes.
		Wash skin thou Handle in acco practice, based sessment Minimize dust Keep containe Keep away fro Take precautio Do not eat, drin	ed or repeated contact with skin. roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- generation and accumulation. r closed when not in use. m heat and sources of ignition. onary measures against static discharges. nk or smoke when using this product. revent spills, waste and minimize release to the
Hygie	ene measures	: If exposure to a flushing system place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide eye ns and safety showers close to the working o not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.
Cond	litions for safe storage		ly labelled containers.



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	Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types:
	Strong oxidizing agents

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Florfenicol	73231-34-2	TWA	100 µg/m3 (OEB 2)	Internal		
Engineering measures	compound. All engineeri design and c	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.				
Personal protective equipment						
Respiratory protection Filter type	sure assessr ommended g	<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Particulates type</li> </ul>				
Hand protection Material	: Chemical-resistant gloves					
Eye protection	If the work en mists or aero Wear a faces	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 and body protection		Work uniform or laboratory coat.				

### Section 9: Physical and chemical properties

:	powder
:	white
:	No data available
	: : : : :

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range					
Flash	point	:	Not applicable		
Evapo	pration rate	:	Not applicable		
Flamr	nability (solid, gas)	:	May form explosive dust-air mixture during processing, ha dling or other means.		
Flamr	nability (liquids)	:	No data available	9	
	r explosion limit / Upper nability limit	:	No data available	9	
	r explosion limit / Lower nability limit	:	No data available	9	
Vapo	ur pressure	:	No data available	9	
Relati	ve vapour density	:	Not applicable		
Relati	ve density	:	No data available	9	
Densi	ty	:	No data available	9	
	ility(ies) ater solubility	:	No data available	9	
	on coefficient: n- ol/water	:	Not applicable		
	ignition temperature	:	No data available	9	
Decor	mposition temperature	:	No data available	9	
Visco Vis	sity scosity, kinematic	:	Not applicable		
Explo	sive properties	:	Not explosive		
Oxidiz	zing properties	:	The substance o	r mixture is not classified as oxidizing.	
Partic	le size	:	No data available	9	

## Section 10: Stability and reactivity

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	May form explosive dust-air mixture during processing, han-
tions		dling or other means.
		Can react with strong oxidizing agents.



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Incom	itions to avoid npatible materials rdous decomposition cts	:	Heat, flames an Avoid dust form Oxidizing agen No hazardous o	nation.
tion 1	1: Toxicological inform	atio	on	
Exposure routes		:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on availa	hla	information	
	oonents:	bie	inionnation.	
	enicol:			
	oral toxicity	:	LD50 (Rat): > 2	000 mg/kg
			LD50 (Mouse):	> 2,000 mg/kg
			LD50 (Dog): > 1	,280 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 0 Exposure time:	
Acute	dermal toxicity	:	Remarks: No da	ita available
	toxicity (other routes of histration)	:		13 - 2,253 mg/kg te: Intraperitoneal
			LD50 (Mouse): Application Rou	
-	corrosion/irritation assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
	enicol:			
Speci Resul		:	Rabbit No skin irritatior	I. Contraction of the second se
	<b>us eye damage/eye irri</b> assified based on availa			
<u>Com</u>	oonents:			
	enicol:			
Speci	es	:	Rabbit	



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Res	sult	:	Mild eye irritation	
Res	spiratory or skin sensi	tisatio	on	
Ski	n sensitisation			
	spiratory sensitisation classified based on ava		information.	
<u>Co</u>	mponents:			
Tes	<b>rfenicol:</b> st Type ecies sult	:	Maximisation Tes Guinea pig negative	t
Chi	ronic toxicity			
	rm cell mutagenicity			
	classified based on ava mponents:	ailable	information.	
	rfenicol:			
-	notoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA o thesis in mamma Test system: rat h Result: negative	
				o mammalian cell gene mutation test ise lymphoma cells
				nosome aberration test in vitro nese hamster ovary cells
Gei	notoxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	arrow

## Carcinogenicity

Not classified based on available information.



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Com	ponents:		
Florfe	enicol:		
Speci		: Rat	
	cation Route sure time	: oral (gavage) : 2 Years	
Resu		: negative	
Targe	et Organs	: Liver, Testes	
Speci		: Mouse	
	cation Route sure time	: oral (gavage) : 2 Years	
Resu		: negative	
Targe	et Organs	: Testes, Blood	
Repr	oductive toxicity		
•	•	tility. Suspected of dar	naging the unborn child.
<u>Com</u>	ponents:		
	enicol:		
Florfe			
	ts on fertility	Species: Rat Application Ro Fertility: LOAE	o-generation reproduction toxicity study ute: Oral L: 12 mg/kg body weight sed pup survival, reduced lactation
Effect		Species: Rat Application Ro Fertility: LOAE Result: decrea : Test Type: Em	ute: Oral L: 12 mg/kg body weight
Effect	ts on fertility	Species: Rat Application Ro Fertility: LOAE Result: decrea : Test Type: Em Species: Rat General Toxici Embryo-foetal	ute: Oral L: 12 mg/kg body weight sed pup survival, reduced lactation bryo-foetal development ty Maternal: NOAEL: 4 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight
Effect	ts on fertility	Species: Rat Application Ro Fertility: LOAE Result: decrea : Test Type: Em Species: Rat General Toxici Embryo-foetal Result: No tera	ute: Oral L: 12 mg/kg body weight sed pup survival, reduced lactation bryo-foetal development ty Maternal: NOAEL: 4 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight togenic effects, Fetotoxicity
Effect	ts on fertility	Species: Rat Application Ro Fertility: LOAE Result: decrea : Test Type: Em Species: Rat General Toxici Embryo-foetal Result: No tera Remarks: The es. Test Type: Em Species: Mous	ute: Oral L: 12 mg/kg body weight sed pup survival, reduced lactation bryo-foetal development ty Maternal: NOAEL: 4 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight togenic effects, Fetotoxicity effects were seen only at maternally toxic of bryo-foetal development e
Effect	ts on fertility	Species: Rat Application Ro Fertility: LOAE Result: decrea : Test Type: Em Species: Rat General Toxici Embryo-foetal Result: No tera Remarks: The es. Test Type: Em Species: Mous Application Ro General Toxici	ute: Oral L: 12 mg/kg body weight sed pup survival, reduced lactation bryo-foetal development ty Maternal: NOAEL: 4 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight togenic effects, Fetotoxicity effects were seen only at maternally toxic c bryo-foetal development e ute: oral (gavage) ty Maternal: NOAEL: 120 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight

Not classified based on available information.



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### STOT - repeated exposure

Causes damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated exposure.

### **Components:**

### Florfenicol:

Target Organs	:	Liver, Brain, Testis, Spinal cord, Blood, gallbladder
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

#### Repeated dose toxicity

### **Components:**

Florfenicol: Species NOAEL Exposure time Target Organs	Dog 3 mg/kg 13 Weel Liver, Te	ks estis, Brain, Spinal cord
Species NOAEL Exposure time Target Organs	Mouse 200 mg/ 13 Weel Liver, Te	(S
Species NOAEL Exposure time Target Organs	Rat 30 mg/k 13 Weel Liver, Te	<s< td=""></s<>
Species NOAEL LOAEL Exposure time Target Organs	Dog 3 mg/kg 12 mg/k 52 Weel Liver, ga	-
Species NOAEL LOAEL Exposure time Target Organs	Rat 1 mg/kg 3 mg/kg 52 Weel Testis	۲S

### Aspiration toxicity

Not classified based on available information.



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## Section 12: Ecological information **Ecotoxicity Components:** Florfenicol: Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 830 mg/l Exposure time: 96 h Method: FDA 4.11 LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11 Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 330 mg/l aquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic EC50 (Pseudokirchneriella subcapitata (green algae)): > 2.9 plants mg/l Exposure time: 14 d Method: FDA 4.01 NOEC (Pseudokirchneriella subcapitata (green algae)): 2.9 mg/l Exposure time: 14 d Method: FDA 4.01 IC50 (Skeletonema costatum (marine diatom)): 0.0336 mg/l Exposure time: 72 h Method: ISO 10253 NOEC (Skeletonema costatum (marine diatom)): 0.00423 mg/l Exposure time: 72 h Method: ISO 10253 EC50 (Lemna gibba (gibbous duckweed)): 0.76 mg/l Exposure time: 7 d Method: OECD Test Guideline 221 NOEC (Lemna gibba (gibbous duckweed)): 0.39 mg/l Exposure time: 7 d Method: OECD Test Guideline 221

EC50 (Navicula pelliculosa (Freshwater diatom)): 61 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

NOEC (Navicula pelliculosa (Freshwater diatom)): 19 mg/l Exposure time: 72 h Method: OECD Test Guideline 201





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			Exposure time: 7	a flos-aquae): 0.066 mg/l 2 h <sup>-</sup> est Guideline 201
			Exposure time: 7	a flos-aquae): 0.051 mg/l 2 h <sup>-</sup> est Guideline 201
	ctor (Acute aquatic tox-	:	10	
icity) Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 5.5 mg/l 2 d <sup>-</sup> est Guideline 210
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 1.5 mg/l 1 d <sup>-</sup> est Guideline 211
M-Fa	ctor (Chronic aquatic ty)	:	10	
	stence and degradabili ata available	ity		
Bioad	ccumulative potential			
<u>Com</u>	ponents:			
Partit	enicol: ion coefficient: n- ol/water	:	log Pow: 0.373 pH: 7	
Mobi	lity in soil			
	ponents:			
Distri	enicol: bution among environ- al compartments	:	Koc: 52 Method: FDA 3.0	8
• • • • •	r adverse effects ata available			
ection 1	3: Disposal considerati	ions	6	
Disp	osal methods			
-	e from residues	:		f waste into sewer. ordance with local regulations.
Conta	aminated packaging	:	Empty containers dling site for recy	s should be taken to an approved waste har cling or disposal.

If not otherwise specified: Dispose of as unused product.



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#### Section 14: Transport information

## International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florfenicol)
Class		9
Packing group		
Labels		9
EmS Code	÷	F-A, S-F
Marine pollutant	÷	ves
Politicality	•	,

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

Not applicable for product as supplied.

## **National Regulations**

<b>NZS 5433</b> UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z
Marine pollutant	:	no



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#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### Section 15: Regulatory information

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

#### HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

#### 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:

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

#### Section 16: Other information

Revision Date	:	30.09.2023
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/
Date format	:	dd.mm.yyyy

#### Full text of other abbreviations

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 con-

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centration; 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.

NZ / EN