



Versi 7.2	ion	Revision Date: 06.09.2024		S Number:)1689-00011		sue: 30.09.2023 sue: 17.03.2020
Sect	ion 1: l	dentification				
	Produc	t name	:	Chlorhexidine (20	0%) Formulatio	n
	Manufa	acturer or supplier's o	detai	ls		
	Compa	ny	:	MSD		
	Addres	S	:	33 Whakatiki Stro Upper Hutt - New		g 908
	Teleph	one	:	0800 800 543		
	Emerge	ency telephone numbe	r :	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800
	E-mail	address	:	EHSDATASTEW	/ARD@msd.coi	m
	Recom	mended use of the c	hem	ical and restriction	ons on use	
		mended use tions on use	:	Veterinary produ Not applicable	ct	
Sect	ion 2: I	Hazard identification				
	GHS C	lassification				
		s eye damage/eye irri-	:	Category 2		
		c target organ toxicity - ed exposure	:	Category 2 (Live	r)	

Hazardous to the aquatic environment - chronic hazard

GHS label elements Hazard pictograms

Signal word

:	Warning	(!)	
•	vannig		

: Category 2

Hazard statements : H319 Causes serious eye irritation. H373 May cause damage to organs (Liver) through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.





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Preca	utionary statements	· Prevention:	
		P264 Wash sk P273 Avoid rel	reathe mist or vapours. in thoroughly after handling. ease to the environment. e protection/ face protection.
		for several min easy to do. Co P314 Get med	ical advice/ attention if you feel unwell. f eye irritation persists: Get medical advice/ at-
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

None known.

Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture
	•	TVII/CUTO

Components

Chemical name	CAS-No.	Concentration (% w/w)
Chlorhexidine	55-56-1	>= 20 -< 25

Section 4: First-aid measures

General advice	In the case of accident or if you feel unwell, seek n vice immediately. When symptoms persist or in all cases of doubt se advice.	
If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occur.	
In case of skin contact	In case of contact, immediately flush skin with soa of water.	o and plenty
In case of eye contact	Get medical attention if symptoms occur. In case of contact, immediately flush eyes with ple for at least 15 minutes.	nty of water
If swallowed	If easy to do, remove contact lens, if worn. Get medical attention. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.	
Most important symptoms and effects, both acute and delayed	Rinse mouth thoroughly with water. Causes serious eye irritation. May cause damage to organs through prolonged o exposure.	or repeated





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Prote	ection of first-aiders	:		ers should pay attention to self-protection, nmended personal protective equipment	
Note	s to physician	:		al for exposure exists (see section 8). cally and supportively.	
Section 5	: Fire-fighting measure	S			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
Unsu medi	iitable extinguishing a	:	None known.		
Spec fighti	ific hazards during fire- ng	:	Exposure to combustion products may be a hazard to health.		
Haza ucts	ardous combustion prod-	:	Carbon oxides		
Spec ods	ific extinguishing meth-	:	cumstances and to Use water spray to	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to de	
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.	
Hazo	hem Code	:	3Z		
Section 6	: Accidental release me	eas	ures		
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t 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.



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			bent. Local or national posal of this mate employed in the mine which regul	ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding
				ational requirements.
Section 7	: Handling and storage	ge		
Tech	nical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
	l/Total ventilation ce on safe handling	:	Use only with ad Do not breathe n	equate ventilation.
		·	Do not swallow. Do not get in eye Avoid prolonged Wash skin thorou Handle in accord practice, based of sessment	
Hygie	ene measures	:		emical is likely during typical use, provide eye

		environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
		When using do not eat, drink or smoke.
		Wash contaminated clothing before re-use.
		The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage	:	
Conditions for sale storage	·	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
Chlorhexidine	55-56-1	TWA	40 µg/m3 (OEB 3)	Internal
	Further information: RSEN, DSEN			
		Wipe limit	100 µg/100 cm2	Internal



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Engir	neering measures	: Use appropri	ate engineering controls and manufacturing		
		less quick co All engineerir design and o protect produ Containment are required	ng controls should be implemented by facility perated in accordance with GMP principles to acts, workers, and the environment. technologies suitable for controlling compounds to control at source and to prevent migration of d to uncontrolled areas (e.g., open-face con- ices).		
Perso	onal protective equip	nent			
Respiratory protection		sure assessn	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.		
	ter type protection	: Particulates t			
Ma	aterial	: Chemical-res	istant gloves		
Re	emarks	: Consider dou	ıble gloving.		
Eye p	protection	If the work er mists or aero Wear a faces	glasses with side shields or goggles. hvironment or activity involves dusty conditions, sols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or		
Skin a	and body protection	Additional bo task being pe posable suits	n or laboratory coat. dy garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis-) to avoid exposed skin surfaces. ate degowning techniques to remove potentially d clothing.		

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	clear
Odour	:	odourless
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

SAFETY DATA SHEET



Chlorhexidine (20%) Formulation

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Flash	point	:	No data available	9
Evapo	pration rate	:	No data available)
Flamr	mability (solid, gas)	:	Not applicable	
Flamr	nability (liquids)	:	No data available)
	r explosion limit / Upper nability limit	:	No data available	
	r explosion limit / Lower nability limit	:	No data available	
Vapor	ur pressure	:	No data available)
Relati	ve vapour density	:	No data available	2
Relati	ve density	:	No data available)
Densi	ty	:	1.06 - 1.07 g/cm ³	i
	ility(ies) ater solubility	:	soluble	
	on coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data available	9
Decor	mposition temperature	:	No data available	9
Visco Vis	sity scosity, kinematic	:	147 mm2/s	
Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Molec	cular weight	:	No data available)
	le characteristics le size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents





ersion 2	Revision Date: 06.09.2024		91689-00011	Date of last issue: 30.09.2023 Date of first issue: 17.03.2020
Hazaı produ	dous decomposition	:	No hazardous	decomposition products are known.
ection 1 [°]	1: Toxicological inform	natio	on	
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity			
	assified based on availa	able	information.	
<u>Produ</u> Acute	<u>uct:</u> oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 2,000 mg/kg ation method
<u>Comp</u>	oonents:			
Chlor	hexidine:			
Acute oral toxicity		:	LD50 Oral (Mo	use): 1,260 mg/kg
			LD50 Oral (Ral	obit): 1,100 mg/kg
			LD50 Oral (Rat): 2,000 mg/kg
	toxicity (other routes of histration)	:	LD50 (Rat): 21 Application Ro	mg/kg ute: Intravenous
	corrosion/irritation assified based on availa	able	information.	
	us eye damage/eye irr		on	
Comp	oonents:			
Chlor	hexidine:			
Speci Resul		:	Rabbit Mild eye irritatio	on
Resp	iratory or skin sensitis	satio	n	
	sensitisation assified based on availa	able	information.	
Resp	iratory sensitisation			
Not cl	assified based on availa	able	information.	



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Chro	nic toxicity		
	-		
	n cell mutagenicity lassified based on ava	ailable information.	
Com	ponents:		
	rhexidine:		
	toxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
			omosomal aberration hinese hamster ovary cells e
Geno	toxicity in vivo	: Test Type: dom Species: Mouse Result: negativ	
		Test Type: Cyte Species: Hams	ter
		Result: negativ	e
Carci	inogonicity	Result: negativ	e
	i nogenicity lassified based on ava	-	e
Not c	• •	-	e
Not c <u>Com</u>	lassified based on ava	-	e
Not c <u>Com</u>	lassified based on ava ponents: rhexidine:	-	e
Not c Com Chlor Speci Applie	lassified based on ava ponents: rhexidine: ies cation Route	ailable information. : Rat : oral (drinking w	
Not c Com Chlor Speci Applic Expos	lassified based on ava ponents: rhexidine: ies cation Route sure time	ailable information. : Rat : oral (drinking w : 2 Years	
Not c Com Chlor Speci Applic Expos	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment	ailable information. : Rat : oral (drinking w : 2 Years : daily	rater)
Not c Comj Chlor Speci Applic Expos Frequ	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL	ailable information. : Rat : oral (drinking w : 2 Years	rater)
Not c Com Chlor Speci Applic Expos Frequ NOAE	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body	rater)
Not c Comj Chlor Speci Applia Expos Frequ NOAR Resu Speci Applia	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It ies cation Route	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w	vater) weight
Not c <u>Com</u> Speci Applie Expos Frequ NOAB Resu Speci Applie Expos	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It ies cation Route sure time	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w : 2 Years	vater) weight
Not c <u>Com</u> Speci Applie Expos Frequ NOAE Resu Speci Applie Expos Frequ Speci Applie Resu	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL it ies cation Route sure time uency of Treatment	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w : 2 Years : daily	rater) weight rater)
Not c <u>Com</u> Speci Applie Expos Frequ NOAB Resu Speci Applie Expos	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It ies cation Route sure time uency of Treatment EL	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w : 2 Years	rater) weight rater)
Not c <u>Com</u> Speci Applie Expos Frequ NOAE Resu Speci Applie Expos Frequ NOAE Resu	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It ies cation Route sure time uency of Treatment EL It It It	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w : 2 Years : daily : 158 mg/kg bod	rater) weight rater)
Not c <u>Com</u> Speci Applia Expos Frequ NOAE Resu NOAE Resu Resu Represent Repr	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It ies cation Route sure time uency of Treatment EL	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w : 2 Years : daily : 158 mg/kg bod : negative	rater) weight rater)
Not c <u>Com</u> Speci Applia Expos Frequ NOAE Resu Speci Applia Expos Frequ NOAE Resu NOAE Resu NOAE Resu	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It ies cation Route sure time uency of Treatment EL It oductive toxicity	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w : 2 Years : daily : 158 mg/kg bod : negative	rater) weight rater)
Not c <u>Com</u> Speci Applia Expos Frequ NOAE Resu Speci Applia Expos Frequ NOAE Resu Resu NOAE Resu	lassified based on ava ponents: rhexidine: ies cation Route sure time uency of Treatment EL It ies cation Route sure time uency of Treatment EL It oductive toxicity lassified based on ava	ailable information. : Rat : oral (drinking w : 2 Years : daily : 38 mg/kg body : negative : Rat : oral (drinking w : 2 Years : daily : 158 mg/kg bod : negative	rater) weight rater)





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Effect ment	ts on foetal develop-	:	Species: Rat Developmental	Toxicity: NOAEL: 300 mg/kg body weight
			Species: Rabb Developmental	t Toxicity: NOAEL: 40 mg/kg body weight
	- single exposure lassified based on avai	ilable	information.	
STOT	- repeated exposure	•		
May o	cause damage to organ	ns (Liv	ver) through prol	onged or repeated exposure.
<u>Com</u>	oonents:			
	rhexidine:			
-	et Organs ssment	:	Liver May cause dar exposure.	nage to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Chlor	rhexidine:			
Speci NOAE		:	Rat 158 mg/kg	
-	cation Route	:	Oral	
Expos	sure time	:	2 yr	
Speci		:	Rabbit	
LOAE	EL cation Route	:	250 mg/kg Dermal	
Expos	sure time	:	13 Weeks	
Targe	et Organs	:	Skin, Liver	
Aspir	ation toxicity			
-	lassified based on avai	ilable	information.	
Expe	rience with human ex	cposu	ire	
<u>Com</u>	oonents:			
Chlor	hexidine:			
	ral Information	:	Symptoms: He	
Inhala	ation	:		Lungs hmatic appearance, bronchospasm, discomfo per respiratory tract infection
Inges	tion	:	Target Organs	Gastrointestinal tract strointestinal disturbance, Gastrointestinal tra



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Section 12: Ecological information

Ecotoxicity		
Components:		
Chlorhexidine: Toxicity to fish	:	(Fish): 2.088 mg/l Exposure time: 96 h Method: ECOSAR (Ecological Structure Activity Relation- ships)
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.222 mg/l Exposure time: 48 h Method: ECOSAR (Ecological Structure Activity Relation- ships)
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.124 mg/l End point: Growth rate Exposure time: 96 hrs Method: ECOSAR (Ecological Structure Activity Relation- ships)
M-Factor (Acute aquatic tox- icity) M-Factor (Chronic aquatic toxicity)	:	1 1
Persistence and degradabili	ty	
Components:		
Chlorhexidine: Biodegradability	:	Remarks: Not inherently biodegradable.
Bioaccumulative potential		
Components:		
Chlorhexidine: Partition coefficient: n- octanol/water	:	log Pow: 4.85
Mobility in soil 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 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Chlorhexidine)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Chlorhexidine)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

National Regulations

NZS 5433





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UN nu Prope	mber r shipping name	:	UN 3082 ENVIRONMENT/ N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		:	(Chlorhexidine) 9	
Packir	ng group	:	III	
Labels	6	:	9	
Hazch	em Code	:	3Z	
Marine	e pollutant	:	no	

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

Tolerable Exposure Limits (TEL)

Not applicable

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:

DSL		not determined
AICS	:	not determined
IECSC	:	not determined

Section 16: Other information

Revision Date	:	06.09.2024
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/



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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 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.

NZ / EN