

## **Chlorhexidine Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.10	30.09.2023	5322112-00011	Date of first issue: 25.11.2019

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Chlorhexidine Formulation

Manufacturer or supplier's details					
Company name of supplier	:	MSD			
Address	:	126 E. Lincoln Avenue			
		Rahway, New Jersey U.S.A. 07065			
Telephone	:	908-740-4000			
Emergency telephone	:	1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Specific target organ toxicity - repeated exposure	:	Category 2 (Liver)
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H373 May cause damage to organs (Liver) through prolonged or repeated exposure.
Precautionary Statements	:	<ul> <li>Prevention:</li> <li>P260 Do not breathe mist or vapors.</li> <li>Response:</li> <li>P314 Get medical advice/ attention if you feel unwell.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste dis-</li> </ul>
Other hazards		posal plant.

#### Other hazards

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

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Components			
Chemical name		CAS-No.	Concentration (% w/w)
Ethanol#		64-17-5	>= 5 -< 10
Chlorhexidine		55-56-1	>= 5 -< 10
# Voluntarily-disclosed sub	stance		
CTION 4. FIRST AID MEAS	URES		
General advice	advice imn	nediately.	u feel unwell, seek medical all cases of doubt seek medical
If inhaled		remove to fresh air. al attention if sympto	
In case of skin contact	: In case of of water.	contact, immediately	r flush skin with soap and plent
In case of eye contact	: If in eyes, I	al attention if sympto rinse well with water	
If swallowed	: If swallowe Get medica	ed, DO NOT induce v al attention if sympto	vomiting.
Most important symptoms and effects, both acute and delayed	: May cause d exposure.		ater. through prolonged or repeated echanical irritation or drying of
Protection of first-aiders	Dust conta : First Aid re and use th	sponders should pa e recommended per	lead to mechanical irritation. y attention to self-protection, sonal protective equipment
Notes to physician		otential for exposure ptomatically and sup	e exists (see section 8). portively.
CTION 5. FIRE-FIGHTING M	IEASURES		
Suitable extinguishing med	lia : Water spra	N/	
Culture changeloning mod	Alcohol-res Carbon dic	sistant foam oxide (CO2)	
	Dry chemic		
Unsuitable extinguishing media	: None know	/n.	
Specific hazards during fire	e : Exposure t	o combustion produ	cts may be a hazard to health.
Hazardous combustion pro ucts	od- : Carbon oxi	ides	
Specific extinguishing methods	cumstance Use water Remove u	es and the surroundin spray to cool unope	
Special protective equipme			ontained breathing apparatus.



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SECTION	6. ACCIDENTAL RELE	AS	EMEASURES	
tive e	nal precautions, protec- quipment and emer- procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal lent recommendations (see section 8).
Environmental precautions :		:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
Methods and materials for containment and cleaning up		:	Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national n disposal of this m employed in the c determine which n Sections 13 and 1	t absorbent material. f dust in the air (i.e., clearing dust surfaces air). build not be allowed to accumulate on a may form an explosive mixture if they are atmosphere in sufficient concentration. rovide diking or other appropriate the material from spreading. If diked material store recovered material in appropriate and materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding tional requirements.

## SECTION 7. HANDLING AND STORAGE

Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Hygiene measures	: If exposure to chemical is likely during typical use, provide eye



Basis

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		place. When using do Wash contamin The effective op engineering cor appropriate deg	s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of atrols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.			
Condi	tions for safe storage	• • • •	: Keep in properly labeled containers. Store in accordance with the particular national regulations.			
Mater	ials to avoid		h the following product types:			

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

		(Form of exposure)	ters / Permissible concentration	
Ethanol	64-17-5	VLE-CT	1,000 ppm	NOM-010- STPS-2014
		STEL	1,000 ppm	ACGIH
Chlorhexidine	55-56-1	TWA	40 µg/m3 (OEB 3)	Internal
	Further inforn	nation: RSEN		
		Wipe limit	400 µg/100 cm2	Internal
Engineering measures	technologies less quick co All engineeri design and c protect produ Containment are required	to control airborn onnections). ng controls shoul operated in accorn ucts, workers, an technologies su to control at soun of to uncontrolled devices).	controls and manufac ne concentrations (e.g ld be implemented by dance with GMP prind d the environment. itable for controlling c rce and to prevent mig d areas (e.g., open-fac	g., drip- facility ciples to ompounds gration of
Personal protective equipment	nt			
Respiratory protection Filter type Hand protection	exposure as recommende	sessment demon ed guidelines, us	tilation is not available Instrates exposures ou e respiratory protection Inganic vapor type	tside the
Material	: Chemical-res	sistant gloves		
Remarks Eye protection	If the work e	glasses with side nvironment or ac	e shields or goggles. tivity involves dusty c ppropriate goggles.	onditions,

CAS-No. Value type Control parame-

### Ingredients with workplace control parameters

Components



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Skin a	Skin and body protection		potential for direct aerosols. Work uniform or la Additional body ga task being perform disposable suits)	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially
SECTION	9. PHYSICAL AND CHI	ΞΜΙΟ		8
Appea	arance	:	liquid	
Color		:	light pink	
Odor		:	No data available	9
Odor <sup>-</sup>	Threshold	:	No data available	9
рН		:	5.0 - 6.5	
Meltin	g point/freezing point	:	No data available	9
Initial range	boiling point and boiling	:	No data available	9
Flash	point	:	No data available	9
Evapo	pration rate	:	No data available	9
Flamn	nability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.
Flamn	nability (liquids)	:	No data available	9
	explosion limit / Upper ability limit	:	No data available	9
	explosion limit / Lower ability limit	:	No data available	9
Vapor	pressure	:	No data available	9
Relativ	ve vapor density	:	No data available	9
Relativ	ve density	:	No data available	9
Densit	ty	:	No data available	9
	ility(ies) ater solubility	:	No data available	9
	on coefficient: n- ol/water	:	Not applicable	



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Autoignition temperature		:	No data available	9
Deco	mposition temperature	:	No data available	9
	osity scosity, kinematic osive properties	:	No data available Not explosive	9
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	cular weight	:	No data available	9
Partic	cle size	:	Not applicable	

## SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	::	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials		Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Information on likely rout</b> Inhalation Skin contact Ingestion Eye contact	es of exposure
Acute toxicity	
Not classified based on ava	ailable information.
Product: Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:	
Ethanol:	
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): 124.7 mg/l



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ersion 10	Revision Date: 30.09.2023		DS Number: 22112-00011	Date of last issue: 04.04.2023 Date of first issue: 25.11.2019
			Exposure time: 4 Test atmosphere:	
Chlor	rhexidine:			
	e oral toxicity	:	LD50 Oral (Mous	e): 1,260 mg/kg
			LD50 Oral (Rabbi	it): 1,100 mg/kg
			LD50 Oral (Rat):	2,000 mg/kg
Acute	e toxicity (other routes of			
	nistration)	•	Application Route	
Skin	corrosion/irritation			
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
Ethar	nol:			
Speci		:	Rabbit	к. <u>404</u>
Metho Resu		÷	OECD Test Guide No skin irritation	eline 404
	lassified based on availa ponents:	DIE	information.	
Ethar	nol:			
Speci		:	Rabbit	
Resu Metho		:	OECD Test Guide	reversing within 21 days eline 405
Chlor	rhexidine:			
Speci		:	Rabbit	
Resu	lt	:	Mild eye irritation	
Resp	iratory or skin sensitiz	atio	on	
Skin	sensitization			
Not c	lassified based on availa	ble	information.	
-	iratory sensitization lassified based on availa	ble	information	
	ponents:	210		
Ethar				
Test <sup>-</sup>		:	Local lymph node	e assay (LLNA)
Route	es of exposure	:	Skin contact	

Species Result



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ersion 10	Revision Date: 30.09.2023		0S Number: 22112-00011	Date of last issue: 04.04.2023 Date of first issue: 25.11.2019
Germ	cell mutagenicity			
Not c	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
Ethar	nol:			
Geno	Genotoxicity in vitro		Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
			Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
Geno	toxicity in vivo	:	Test Type: Rod Species: Mouse Application Rou Result: equivoo	ite: Ingestion
Chlor	rhexidine:			
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
				omosomal aberration hinese hamster ovary cells e
Geno	toxicity in vivo	:	Test Type: dom Species: Mouse Result: negative	
			Test Type: Cyto Species: Hams Result: negative	ter
Carci	inogenicity			
	lassified based on ava	ailable	information.	
Com	ponents:			
	rhexidine:			
Speci Applic Expos	ies cation Route sure time uency of Treatment EL		Rat oral (drinking w 2 Years daily 38 mg/kg body negative	
Expos	cation Route sure time uency of Treatment EL		Rat oral (drinking w 2 Years daily 158 mg/kg body negative	



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ersion 10	Revision Date: 30.09.2023	-	9S Number: 22112-00011	Date of last issue: 04.04.2023 Date of first issue: 25.11.2019
Repr	oductive toxicity			
•	lassified based on availa	able	information.	
Com	ponents:			
Ethai	nol:			
Effect	ts on fertility	:	Test Type: Two Species: Mouse Application Rou Result: negative	te: Ingestion
Chlo	rhexidine:			
Effec	ts on fertility	:	Species: Rat Fertility: NOAEL	.: 100 mg/kg body weight
Effec	ts on fetal development	:	Species: Rat Developmental	Toxicity: NOAEL: 300 mg/kg body weight
			Species: Rabbit Developmental	Toxicity: NOAEL: 40 mg/kg body weight
STO May o	lassified based on availa <b>F-repeated exposure</b> cause damage to organs ponents:			onged or repeated exposure.
	-			
Targe	<b>rhexidine:</b> et Organs ssment	:	Liver May cause dam exposure.	age to organs through prolonged or repeat
Repe	ated dose toxicity			
Com	ponents:			
Ethai	nol:			
	EL	:	Rat 1,280 mg/kg 3,156 mg/kg Ingestion 90 Days	
Chlo	rhexidine:			
		:	Rat 158 mg/kg Oral 2 y	
Spec			Rabbit	



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rsion 0	Revision Date: 30.09.2023	-	DS Number: 22112-00011	Date of last issue: 04.04.2023 Date of first issue: 25.11.2019		
Application Route Exposure time Target Organs		:	Dermal 13 Weeks Skin, Liver			
-	ration toxicity lassified based on availa	ble	information.			
Expe	rience with human exp	osı	ıre			
<u>Com</u>	oonents:					
Chlor	hexidine:					
Gene Inhala	ral Information ation	:				
Ingestion		:	Target Organs: Gastrointestinal tract Symptoms: Gastrointestinal disturbance, Gastrointestinal trac damage			
OTION						
CTION	12. ECOLOGICAL INFO	DRI	ΜΑΤΙΟΝ			
	12. ECOLOGICAL INFO	DRI	MATION			
Ecoto		ORI	MATION			
Ecoto	oxicity oonents:	DRI	MATION			
Ecoto <u>Com</u> r Ethar	oxicity oonents:					
Ecoto <u>Comp</u> Ethar Toxic	oxicity ponents: nol:	:	LC50 (Pimephale Exposure time: 96	6 h nia (water flea)): > 1,000 mg/l		
Ecoto Comp Ethar Toxici Toxici aquat	<b>oxicity</b> <b>ponents:</b> <b>nol:</b> ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	:	LC50 (Pimephale Exposure time: 96 EC50 (Ceriodaph Exposure time: 48	nia (water flea)): > 1,000 mg/l 3 h vulgaris (Fresh water algae)): 275 mg/l		
Ecoto Comp Ethar Toxici aquat	<b>oxicity</b> <b>ponents:</b> <b>nol:</b> ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	:	LC50 (Pimephale Exposure time: 96 EC50 (Ceriodaph Exposure time: 48 ErC50 (Chlorella Exposure time: 72	5 h nia (water flea)): > 1,000 mg/l 3 h vulgaris (Fresh water algae)): 275 mg/l 2 h vulgaris (Fresh water algae)): 11.5 mg/l		
Ecoto Comp Ethar Toxici aquat Toxici plants	bxicity bonents: hol: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic bity to daphnia and other ic invertebrates (Chron-	:	LC50 (Pimephale Exposure time: 96 EC50 (Ceriodaph Exposure time: 48 ErC50 (Chlorella Exposure time: 72 EC10 (Chlorella v Exposure time: 72	5 h nia (water flea)): > 1,000 mg/l 3 h vulgaris (Fresh water algae)): 275 mg/l 2 h rulgaris (Fresh water algae)): 11.5 mg/l 2 h magna (Water flea)): 9.6 mg/l		

### 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-



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				ships)	
	Toxicity to algae/aquatic plants		:	<ul> <li>ErC50 (Pseudokirchneriella subcapitata (green algae mg/l End point: Growth rate Exposure time: 96 hrs Method: ECOSAR (Ecological Structure Activity Rela ships)</li> </ul>	
Ре	rsist	ence and degradabil	ity		
<u>Co</u>	mpo	nents:			
	hano				
Bic	odegr	adability	:	Result: Readily bio Biodegradation: 8 Exposure time: 20	34 %
Ch	lorhe	exidine:			
Bic	odegr	adability	:	Remarks: Not inho	erently biodegradable.
Bio	bacc	umulative potential			
<u>Co</u>	mpo	nents:			
Eth	hano	l:			
		n coefficient: n- /water	:	: log Pow: -0.35	
		exidine:			
		n coefficient: n- /water	:	log Pow: 4.85	
	-	<b>y in soil</b> available			
		dverse effects available			

#### **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	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG



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ersion .10	Revision Date: 30.09.2023		OS Number: 22112-00011	Date of last issue: 04.04.2023 Date of first issue: 25.11.2019
UN number Proper shipping name		:	UN 3082 ENVIRONMENT/ N.O.S. (Chlorhexidine)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		:	9	
	g group	:		
Labels		:	9	
Enviror	mentally hazardous	:	yes	
IATA-D	OGR			
UN/ID I	No.	:	UN 3082	
	shipping name	:	(Chlorhexidine)	nazardous substance, liquid, n.o.s.
Class		:	9	
	g group	:		
Labels		:	Miscellaneous	
aircraft		÷	964	
ger airc		:	964	
Enviror	mentally hazardous	:	yes	
IMDG-	Code			
UN nur		:	UN 3082	
Proper	shipping name	:	ENVIRONMENT/ N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class			(Chlorhexidine) 9	
	g group	:	9 	
Labels	g group	:	9	
EmS C	ode	÷	F-A, S-F	
	pollutant	÷	yes	
		j to		OL 73/78 and the IBC Code
Not app	plicable for product as	sup	plied.	
Domes	tic regulation			
Domes				

### NOM-002-SCT

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Chlorhexidine)
Class	:	9
Packing group	:	
Labels	:	9

### 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.



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Safet mixtu		nmental regulations/l	egislation specific	for the substance or
	-165-SEMARNAT-20 stry of Emissions and	13, Norm establishing a Pollutant Transfer	a list of substances s	ubject to report for the
•	ponents	CAS-No.	MPU (kg/year)	Transfer/Release (kg/year)
Chlor	hexidine	55-56-1	2500 kg/year	100 kg/year
more				ixture in a composition of t are subject to report or
essei	ral Law for the contro ntial chemical product ucing capsules, tablet	2	s, : Not applic	able
The i	ngredients of this p	roduct are reported ir	the following inver	ntories:
AICS		: not determined	l	
DSI		· not determined	I	

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

#### **SECTION 16. OTHER INFORMATION**

Revision Date Date format		30.09.2023 dd.mm.yyyy		
Full text of other abbreviations				
ACGIH NOM-010-STPS-2014		USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits		
ACGIH / STEL NOM-010-STPS-2014 / VLE CT		Short-term exposure limit Short term exposure limit value		

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 Con-



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centration 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

Sources of key data used to compile the Material Safety Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8