according to GB/T 16483 and GB/T 17519



Enrofloxacin (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Enrofloxacin (10%) Formulation			
Manufacturer or supplier's details Company : MSD					
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	86-571-87268110			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the ch	em	ical and restrictions on use			
Recommended use Restrictions on use	:	Veterinary product Not applicable			

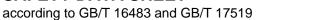
2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid No data available No data available			
May be harmful if swallowed. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.					
GHS Classification					
Acute toxicity (Oral)	:	Category 5			
Reproductive toxicity		Category 2			
Specific target organ toxicity - repeated exposure	:	Category 1			
Short-term (acute) aquatic hazard	:	Category 1			
Long-term (chronic) aquatic hazard	:	Category 1			

GHS label elements

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Hazaro	d pictograms		¥
Signal	word	: Danger	\checkmark
Hazaro	d statements	H361f Suspec H372 Causes exposure.	harmful if swallowed. ted of damaging fertility. damage to organs through prolonged or repeated tic to aquatic life with long lasting effects.
Precau	utionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sl P270 Do not e P273 Avoid re	breathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment. otective gloves/ protective clothing/ eye protec-
		Response: P312 Call a P P391 Collect s	OISON CENTER/ doctor if you feel unwell. spillage.
		Storage: P405 Store lo	
		Disposal:	of contents/ container to an approved waste

Health hazards

May be harmful if swallowed. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.

Environmental hazards

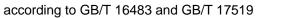
Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture





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Components

Chemical name	CAS-No.	Concentration (% w/w)
Enrofloxacin	93106-60-6	>= 10 -< 20
Benzyl alcohol	100-51-6	>= 1 -< 10

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May be harmful if swallowed. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers.



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	Specia for firef	l protective equipment ïghters	:	so. Evacuate area.	ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. ective equipment.
6. A	CCIDE	NTAL RELEASE MEAS	SUF	RES	
	tive eq	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Enviror	nmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
		ds and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	absorbent material. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In g materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE

Handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as- sessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.



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Avoid	ance of contact	: Oxidizing ager	nts
Stora	ige		
Conditions for safe storage		Store locked u	rly labelled containers. p. dance with the particular national regulations.
Mater	rials to avoid		ith the following product types:
Packa	aging material	: Unsuitable ma	terial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameter

Components with workplace control parameters						
Components	CA	S-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Enrofloxacin	93	106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal	
Engineering measures	te le: Al de pr	chnologies ss quick co l engineerir ssign and op otect produ	to control airbor nnections). Ig controls shou perated in accor cts, workers, an	controls and manufact re concentrations (e. Id be implemented by dance with GMP print d the environment. require special conta	g., drip- facility ciples to	
Personal protective equip	nent					
Respiratory protection Filter type Eye/face protection	su or : Co : W If W po ae	The assessment of the second second second pear safety of the work en- sists or aerosi ear a faces otential for co prosols.	nent demonstrat uidelines, use re rticulates and o glasses with side wironment or ac sols, wear the a hield or other fu lirect contact to	ntilation is not available espiratory protection. rganic vapour type e shields or goggles. ctivity involves dusty c ppropriate goggles. Il face protection if the the face with dusts, m	the rec- onditions, ere is a	
Skin and body protection Hand protection			or laboratory c	oat.		
Material	: CI	nemical-res	istant gloves			
Hygiene measures	ey ing W W Tł er	re flushing s g place. hen using c ash contam ne effective ngineering c	systems and saf do not eat, drink ninated clothing operation of a f controls, proper		the work- review of quipment,	

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industrial hygiene monitoring, medical surveillance and the use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-	:	Not applicable
octanol/water Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		



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Viso	cosity, kinematic	:	No data availabl	e	
Explosive properties Oxidizing properties		:	Not explosive		
		:	: The substance or mixture is not classified as oxidizing.		
Particle	e size	:	Not applicable		
10. STABIL	ITY AND REACTIVIT	Y			
Reactiv		:		a reactivity hazard.	
	cal stability ility of hazardous reac-	. :	Stable under not Can react with s	mal conditions. trong oxidizing agents.	
Conditi	ions to avoid	:	None known.		
	batible materials lous decomposition ts	:	Oxidizing agents No hazardous de	ecomposition products are known.	
11. TOXICO	DLOGICAL INFORMA	TIOI	N		
Exposi	ure routes	:	Inhalation Skin contact Ingestion Eye contact		
	toxicity e harmful if swallowed.				
Produ	<u>ct:</u>				
Acute	oral toxicity	:	Acute toxicity est Method: Calculat	imate: 4,793 mg/kg ion method	
Acute i	nhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h : dust/mist	
Acute	dermal toxicity	:	Acute toxicity est Method: Calculat	imate: > 5,000 mg/kg ion method	
Comp	onents:				
Enrofle	oxacin:				
Acute	oral toxicity	:	LD50 (Rabbit): 50	00 - 800 mg/kg	
			LD50 (Rat): > 5,0	00 mg/kg	
			LD50 (Mouse): >	5,000 mg/kg	
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Acute	dermal toxicity	: LD50 (Rabbi	t): > 2,000 mg/kg
Demm	d alaah al		
-	yl alcohol: oral toxicity	: LD50 (Rat):	1.620 mg/kg
	inhalation toxicity	: LC50 (Rat): Exposure tin Test atmosp	> 4.178 mg/l
	corrosion/irritation assified based on ava	ilable information.	
Comp	oonents:		
Enrof Resul	f loxacin: t	: No skin irrita	tion
Benzy	yl alcohol:		
Speci Metho Resul	es od	: Rabbit : OECD Test (: No skin irrita	Guideline 404 tion
	us eye damage/eye i		
	assified based on ava	ilable information.	
	<u>oonents:</u>		
Enrot Resul	t	: Mild eye irrita	ation
Benzy	yl alcohol:		
Speci Resul Metho	es t		yes, reversing within 21 days Guideline 405
Resp	iratory or skin sensit	isation	
	sensitisation assified based on ava	ilable information.	
-	iratory sensitisation	ilable information	
INOT CI	assified based on ava	ilable information.	

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Components: Enrofloxacin:

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Result	:	Not a skin sensitizer.

Benzyl alcohol:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

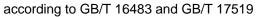
Components:

Enrofloxacin:

Genotoxicity in vitro	:	Test Type: Chromosomal aberration Result: positive
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Result: negative
		Test Type: Mammalian bone marrow sister chromatid ex- change Species: Hamster Result: negative
		Test Type: Chromosomal aberration Species: Rat Result: negative
Benzyl alcohol:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative

Carcinogenicity

Not classified based on available information.





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<u>Components:</u> Enrofloxacin:

Species Application Route Exposure time Result	:	Rat Oral 2 Years negative
Species Application Route Exposure time Result	:	Mouse Oral 2 Years negative
Benzyl alcohol: Species Application Route Exposure time Method Result	:	Mouse Ingestion 103 weeks OECD Test Guideline 451 negative
Reproductive toxicity Suspected of damaging fertility Components:	' .	
Enrofloxacin:		
Effects on fertility	:	Test Type: Two-generation study Species: Rat Application Route: Oral Fertility: LOAEL: 15 mg/kg body weight Result: Effects on fertility, alteration in sperm morphology
Effects on foetal develop- ment	:	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 210 mg/kg body weight Result: Reduced foetal weight, No teratogenic effects Remarks: Maternal toxicity observed.
		Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 25 mg/kg body weight Result: No fetotoxicity, No teratogenic effects
Reproductive toxicity - As- sessment	:	Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Benzyl alcohol:

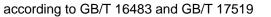
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Effec	ets on fertility	; //	Species: Rat Application Ro Result: negativ	
Effec ment	ts on foetal develop-		Test Type: Em Species: Mous Application Ro Result: negativ	ute: Ingestion
	T - single exposure classified based on avai	lable ir	formation.	
STO.	T - repeated exposure			
Caus	ses damage to organs the	hrough	prolonged or I	repeated exposure.
<u>Com</u>	ponents:			
Enro	floxacin:			
-	et Organs ssment	: (cartilage, Testi Causes damag exposure.	s je to organs through prolonged or repeated
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Enro	floxacin:			
Expo	EL		Rat 36 mg/kg 150 mg/kg Dral 13 Weeks Festis	
Expo	EL		Dog 3 mg/kg 9.6 mg/kg Dral 13 Weeks cartilage	
	EL cation Route sure time		Cat 25 mg/kg Oral 30 Days No significant a	adverse effects were reported

Benzyl alcohol:





ersion 14	Revision Date: 2023/09/30		9S Number: 3941-00021	Date of last issue: 2023/04/04 Date of first issue: 2016/04/27
	EL cation Route sure time	:	Rat 1.072 mg/l inhalation (dus 28 Days OECD Test Gu	
-	ration toxicity lassified based on ava	ailable	information.	
Expe	rience with human e	xposu	re	
<u>Com</u>	oonents:			
Enrol Inges	floxacin: tion	:		astrointestinal disturbance, central nervous sys- ensitivity to light
2. ECOL	OGICAL INFORMATI	ON		
Ecoto	oxicity			
	oonents:			
	floxacin:			
Toxic	ity to fish	:	LC50 (Lepomis Exposure time	s macrochirus (Bluegill sunfish)): 79.5 mg/l : 96 h
			LC50 (Oncorh Exposure time	ynchus mykiss (rainbow trout)): > 196 mg/l : 96 h
			LC50 (Oryzias Exposure time	latipes (Japanese medaka)): > 100 mg/l : 96 h
	ity to daphnia and oth ic invertebrates	er :	EC50 (Hyalella Exposure time	a azteca (Amphipod)): > 206 mg/l : 96 h
			EC50 (Daphni Exposure time	a magna (Water flea)): 79.9 mg/l : 48 h
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudo mg/l Exposure time	kirchneriella subcapitata (green algae)): 3.1 : 72 h
			EC50 (Microcy Exposure time	rstis aeruginosa (blue-green algae)): 0.049 mg/l : 5 d
M-Fa icity)	ctor (Acute aquatic to	x- :	10	
Toxic	ity to daphnia and oth ic invertebrates (Chro icity)		NOEC (Daphn Exposure time	ia magna (Water flea)): 9.8 mg/l : 21 d

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ersion .14	Revision Date: 2023/09/30		S Number: 3941-00021	Date of last issue: 2023/04/04 Date of first issue: 2016/04/27
			NOEC (Daphi Exposure time	nia magna (Water flea)): 5 mg/l e: 21 d
			LOEC (Daphr Exposure time	ia magna (Water flea)): 15 mg/l e: 21 d
M-Fact toxicity	tor (Chronic aquatic	:	10	
Benzy	l alcohol:			
-	y to fish	:	LC50 (Pimeph Exposure time	aales promelas (fathead minnow)): 460 mg/l e: 96 h
	y to daphnia and other c invertebrates	:	Exposure time	ia magna (Water flea)): 230 mg/l e: 48 h D Test Guideline 202
Toxicity to algae/aquatic plants		:	mg/l Exposure time	okirchneriella subcapitata (green algae)): 770 e: 72 h D Test Guideline 201
			NOEC (Pseud mg/l Exposure time	lokirchneriella subcapitata (green algae)): 310
	y to daphnia and other c invertebrates (Chron- tity)	:	Exposure time	nia magna (Water flea)): 51 mg/l e: 21 d D Test Guideline 211
Persis	tence and degradabili	ty		
<u>Comp</u>	onents:			
-	I alcohol: gradability	:	Result: Readi Biodegradatio Exposure time	
Bioaco	cumulative potential			
Comp	onents:			
Partitic	oxacin: on coefficient: n- I/water	:	log Pow: 0.5	
Partitic	l alcohol: on coefficient: n- l/water	:	log Pow: 1.05	



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Mobility in soil

Components:

Enrofloxacin:

Distribution among environ- : Koc: 5.55 mental compartments

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Disposal	methods
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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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		()
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	Ves
•		,
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
		()
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
•		
IMDG-Code		
UN number	:	
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		0





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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

GB 6944/12268

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		()
Class	:	9
Packing group	:	
Labels	:	9
Marine pollutant	:	no
1		

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.

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

The components of this product are reported in the following inventories:

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

16. OTHER INFORMATION

Revision Date	:	2023/09/30
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/

according to GB/T 16483 and GB/T 17519



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Date format

: yyyy/mm/dd

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

Disclaimer

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.

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