



Version 2.1	Revision Date: 2023/09/30		S Number: 679103-00005	Date of last issue: 2023/04/04 Date of first issue: 2022/05/06
1. PRODU	ICT AND COMPANY IDI	ENT	IFICATION	
Produ	uct name	:	Cefadroxil Mono	ohydrate Formulation
Manu	facturer or supplier's d	letai	ils	
Comp	bany	:	MSD	
Addre	ess	:	126 E. Lincoln A Rahway, New J	Avenue ersey U.S.A. 07065
Telep	hone	:	908-740-4000	
Emer	gency telephone number	· :	1-908-423-6000)
E-ma	il address	:	EHSDATASTE	WARD@msd.com
Reco	mmended use of the ch	nem	ical and restrict	ions on use
	mmended use ictions on use	:	Veterinary prod Not applicable	uct

2. HAZARDS IDENTIFICATION

GHS Classification Respiratory sensitisation	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	:	Prevention: P261 Avoid breathing dust. P284 Wear respiratory protection.
		Response:
		P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.



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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 42 %

Other hazards which do not result in classification

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 30 -< 60
Cefadroxil	66592-87-8	>= 30 -< 60
Magnesium stearate	557-04-0	< 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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Notes	s to physician		when the potent	ommended personal protective equipment ial for exposure exists (see section 8). tically and supportively.
		•	Theat Symptoma	
J. FIREFI	GHTING MEASURES			
Suita	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical	
Unsu media	itable extinguishing	:	None known.	
	ific hazards during fire-	:	Avoid generating dust; fine dust dispersed in air in sufficie concentrations, and in the presence of an ignition source potential dust explosion hazard. Exposure to combustion products may be a hazard to heat	
Haza ucts	rdous combustion prod-	:	Carbon oxides Sodium oxides Nitrogen oxides Metal oxides	(NOx)
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to do
	ial protective equipment efighters	:		re, wear self-contained breathing apparatus. otective equipment.
6. ACCIDI	ENTAL RELEASE MEA	SUF	RES	
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).
Envir	onmental precautions	:	Prevent further I Retain and dispe	the environment. eakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages ined.
	ods and materials for inment and cleaning up	:	over the area to Add excess liqu Soak up with ine Avoid dispersal with compressed Dust deposits sh es, as these ma leased into the a	ith absorbents and place a damp covering minimise entry of the material into the air. id to allow the material to enter into solution. ert absorbent material. of dust in the air (i.e., clearing dust surfaces d air). hould not be allowed to accumulate on surfac- y form an explosive mixture if they are re- atmosphere in sufficient concentration. hing materials from spill with suitable absor-



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			posal of this mat employed in the mine which regu Sections 13 and	l 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.
HANDL	ING AND STORAGE			
Techr	nical measures	:	causing an explo Provide adequat	may accumulate and ignite suspended dust osion. te precautions, such as electrical grounding inert atmospheres.
	/Total ventilation e on safe handling	:	Avoid breathing Do not swallow. Avoid contact wi Avoid prolonged Handle in accord practice, based of sessment Keep container to Already sensitise to asthma, allero should consult th tory irritants or s Minimize dust ge Keep container of Keep away from Take precaution	th eyes. or repeated contact with skin. dance with good industrial hygiene and safet on the results of the workplace exposure as- ightly closed. ed individuals, and those susceptible gies, chronic or recurrent respiratory disease heir physician regarding working with respira
Cond	itions for safe storage	:	Keep in properly Keep tightly clos	labelled containers. ed. nce with the particular national regulations.
Mater	rials to avoid	:		n the following product types:

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	NAB	10 mg/m3	ID OEL
		TWA	10 mg/m3	ACGIH
Cefadroxil	66592-87-8	TWA	500 mcg/m3 (OEB 2)	Internal
	Further information: RSEN			



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Magnesium stearate	557-04-0	NAB	10 mg/m3	ID OEL
		o classify these r	ied as carcinogenic t naterials as carcinog	
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH

Engineering measures :	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 equipmen	t
Respiratory protection : Filter type :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type
Hand protection Material :	Chemical-resistant gloves
Eye protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection : Hygiene measures :	Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white

Odour : No data available

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	Odour ⁻	Threshold	:	No data available	
	pН		:	No data available)
	Melting	point/freezing point	:	No data available)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	
	Density	/	:	No data available	
	Solubili Wat	ity(ies) er solubility	:	No data available)
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	/water nition temperature	:	No data available	9
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)
	Particle	e size	:	No data available	



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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, han- dling or other means. Can react with strong oxidizing agents.
	Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
	Incompatible materials Hazardous decomposition products	:	Oxidizing agents
11.	TOXICOLOGICAL INFORMAT	101	N
	Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
	Acute toxicity		
	Not classified based on availal	ble	information.
	Components:		
	Cellulose:		
	Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
	Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
	Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
	Cefadroxil:		
	Acute oral toxicity	:	LD50 (Rat): > 8,000 mg/kg
			LD50 (Mouse): > 7,000 mg/kg
	Acute toxicity (other routes of administration)	:	LD50 (Rat): > 6,000 mg/kg Application Route: Intraperitoneal
			LD50 (Mouse): > 7,000 mg/kg Application Route: Intraperitoneal
			LD50 (Rat): > 1,000 mg/kg Application Route: Intravenous
			LD50 (Mouse): > 1,500 mg/kg

Method



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			Application Rou	te: Intravenous			
Magn	esium stearate:						
-	oral toxicity	:	Assessment: Th icity	000 mg/kg Test Guideline 423 e substance or mixture has no acute oral to d on data from similar materials			
Acute	e dermal toxicity	:	: LD50 (Rabbit): > 2,000 mg/kg Remarks: Based on data from similar materials				
-	corrosion/irritation lassified based on ava	ailable	information.				
Com	oonents:						
Magn	esium stearate:						
Speci Resul Rema	lt	:	Rabbit No skin irritation Based on data f	rom similar materials			
Serio	us eye damage/eye	irritat	ion				
Not cl	assified based on ava	ailable	information.				
<u>Comp</u>	oonents:						
Magn	esium stearate:						
Speci		:	Rabbit				
Resul Rema		:	No eye irritation Based on data f	rom similar materials			
Resp	iratory or skin sensi	itisatio	on				
Skin	sensitisation						
-	lassified based on ava	ailable	information.				
-	iratory sensitisation cause allergy or asthm		nptoms or breathir	ng difficulties if inhaled.			
-	oonents:	- ,					
	droxil:						
Resul		:	Sensitiser				
Magn	esium stearate:						
Test		:	Maximisation Te	est			
	sure routes	:	Skin contact				
Speci Metho		:	Guinea pig	1.1			

: OECD Test Guideline 406



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Resu Rema		:	negative Based on data f	rom similar materials
	cell mutagenicity lassified based on av	ailable	information.	
Com	ponents:			
Cellu Geno	lose: toxicity in vitro	:		erial reverse mutation assay (AMES)
			Result: negative	e ro mammalian cell gene mutation test
			Result: negative	
Geno	Genotoxicity in vivo		Test Type: Mam cytogenetic ass Species: Mouse Application Rou Result: negative	te: Ingestion
Magn	esium stearate:			
Geno	toxicity in vitro	:	Result: negative	rro mammalian cell gene mutation test e d on data from similar materials
			Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e d on data from similar materials
			Result: negative	erial reverse mutation assay (AMES) e d on data from similar materials
	nogenicity lassified based on av	ailable	information.	
Com	ponents:			
Cellu Speci Applio		:	Rat Ingestion	

Exposure time:72 weeksResult:negative

Reproductive toxicity

Not classified based on available information.



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	Compo	onents:			
	Cellulo	ose:			
	Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects ment	on foetal develop-	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development
	Cefadr	oxil:			
	Effects	on fertility	:	Test Type: Fertilit Species: Mouse Application Route Fertility: NOAEL: Result: No advers	: Intraperitoneal 400 mg/kg body weight
	Effects ment	on foetal develop-	:	Test Type: Develor Species: Rat Application Route Developmental To Result: No advers	: Oral oxicity: NOAEL: 500 mg/kg body weight
	Magne	sium stearate:			
	-	on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	
	Effects ment	on foetal develop-	:	Species: Rat Application Route Result: negative	ro-foetal development : Ingestion on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.



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Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Cellu	lose:		
Speci		: Rat	
NOAE		: >= 9,000 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
Cefac	droxil:		
Speci		: Mouse	
NOAE	L cation Route	: 200 mg/kg : Oral	
	sure time	: 14 W	
	et Organs	: Prostate, male r	eproductive organs, Liver, Adrenal gland
Speci	es	: Rat	
NOAE		: 100 mg/kg	
	cation Route sure time	: Oral : 26 W	
	et Organs	: Kidney	
Speci		: Rat	
LOAE		: > 316 mg/kg	
	cation Route sure time	: Oral : 26 W	
	et Organs	: Kidney	
Speci	es	: Dog	
LOAE		: 200 mg/kg	
	sure time et Organs	: 26 W : Blood, Liver	
Rema		: May cause dama	age to organs.
Magn	esium stearate:		
Speci		: Rat	
NOAE		: > 100 mg/kg	
Applic	cation Route sure time	: Ingestion : 90 Days	
Rema			rom similar materials
Aspir	ation toxicity		
	assified based on av		
-	rience with human e	exposure	
	oonents:		
Cefac Inhala	droxil:	· Symptomat Nav	oo Vomiting voginitic Hoodocho Dii-
minala		. Symptoms: Nau	sea, Vomiting, vaginitis, Headache, Dizzin



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2 5001			dry mouth, Fatig turbance	ue, constipation, colitis, Gastrointestinal dis-
		N		
	oxicity oonents:			
Cellu		:	Exposure time: 4	tipes (Japanese medaka)): > 100 mg/l l8 h l on data from similar materials
Cefac	droxil:			
	e aquatic toxicity	:	Toxic effects car	not be excluded
Chror	nic aquatic toxicity	:	Toxic effects car	not be excluded
	esium stearate: ity to fish	:	Exposure time: 4 Method: DIN 384	
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Test substance: Method: Directive Remarks: Based	nagna (Water flea)): > 1 mg/l I7 h Water Accommodated Fraction e 67/548/EEC, Annex V, C.2. I on data from similar materials I limit of solubility
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 7 Test substance: Method: OECD ⁻ Remarks: Based	rchneriella subcapitata (green algae)): > 1 72 h Water Accommodated Fraction Fest Guideline 201 I on data from similar materials
			mg/l Exposure time: 7 Test substance: Method: OECD	kirchneriella subcapitata (green algae)): > 1 2 h Water Accommodated Fraction Fest Guideline 201 I on data from similar materials
Toxici	ity to microorganisms	:	EC10 (Pseudom Exposure time: 1	onas putida): > 100 mg/l 6 h



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			Water Accommodated Fraction on data from similar materials		
tence and degradab	oility				
onents:					
ose: Jradability	:	Result: Readily I	biodegradable.		
Magnesium stearate: Biodegradability Bioaccumulative potential		Result: Not biodegradable Remarks: Based on data from similar materials			
onents:					
esium stearate: on coefficient: n- I/water	:	log Pow: > 4			
ty in soil a available					
adverse effects a available					
SAL CONSIDERATIO	ONS				
sal methods					
from residues	:		of waste into sewer. cordance with local regulations.		
ninated packaging	:	Empty container dling site for rec	specified: Dispose of as unused product.		
	onents: pse: pradability esium stearate: pradability cumulative potential onents: esium stearate: on coefficient: n- l/water ty in soil a available adverse effects a available SAL CONSIDERATIONSIDERATIONSI sal methods from residues minated packaging	ose: pradability esium stearate: pradability pradability cumulative potential onents: esium stearate: on coefficient: n- l/water ty in soil a available adverse effects a available SAL CONSIDERATIONS sal methods from residues	tence and degradability onents: ose: gradability irradability esium stearate: gradability gradability esium stearate: gradability gradability esium stearate: gradability cumulative potential onents: esium stearate: on coefficient: n- ivater ty in soil a available adverse effects a available SAL CONSIDERATIONS sal methods from residues : ininated packaging : in ot otherwise		

International Regulations

UNRTDG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
IATA-DGR		
UN/ID No.	:	Not applicable



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Prop Class	er shipping name	: Not applicable						
	idiary risk	: Not applicable : Not applicable						
	ing group	: Not applicable						
Labe		: Not applicable						
Pack aircra	ing instruction (cargo	: Not applicable						
Pack	ing instruction (passen- ircraft)	: Not applicable						
IMDO	G-Code							
	umber	: Not applicable						
Prop	er shipping name	: Not applicable						
	idiary risk	: Not applicable : Not applicable						
	ing group	: Not applicable						
Labe		: Not applicable						
	Code	: Not applicable						
Marir	ne pollutant	: Not applicable						
	•	g to Annex II of MARPOL 73/78 and the IBC Code						
Not a	pplicable for product as	supplied.						
Spec	ial precautions for use	r						
Not a	pplicable							
	ILATORY INFORMATIO		gislation specific for the substance or mix-					
ter o		o. 87/M-IND/PER/9/2	R/4/2013 concerning the Revision of Minis- 009 concerning Globally Harmonized Sys- s.					
	llation of the Minister o rdous to Health	f Health No. 472 of 1	996 on the Safeguarding of Substances					
Haza	rdous substances that m	nust be registered	: Not applicable					
Gove stane	-	. 74 of 2001 on the M	anagement of Hazardous and Toxic Sub-					
Haza	rdous substances appro	ved for use	: Not applicable					
Prohi	ibited substances		: Not applicable					
Rest	ricted substances		: Not applicable					

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I





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	Type of hazardous materials subject to distribution and : Not applicable control, Annex II									
	• •	odu	ct are reported in	the following inventories:						
AICS		:	not determined							
DSL		:	not determined							
IECS	IECSC		not determined							
16. OTHE	R INFORMATION									
Revis	sion Date	:	2023/09/30							
Furth	er information									
	ces of key data used to ile the Safety Data t	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/						
Date	format	:	yyyy/mm/dd							
Full t	ext of other abbreviati	ons								
ACGI ID OE		:		eshold Limit Values (TLV) pational Exposure Limits						
	IH / TWA EL / NAB	:	8-hour, time-weig Long term expos							

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 Substanc-

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es; (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.

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