according to the Hazardous Products Regulations



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SECTION 1. IDENTIFICATION

Product name	:	Multivitamin (with Soy Oil) Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
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@merck.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 in accordance with the Hazardous Products Regulations				
Reproductive toxicity	:	Category 1A		
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver)		
GHS label elements				
Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H360D May damage the unborn child. H372 Causes damage to organs (Liver) through prolonged or repeated exposure.		
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, protective clothing, eye protection and face protection. 		
		Response: P308 + P313 IF exposed or concerned: Get medical attention.		

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Storage:

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Vitamin A Palmitate	Retinol, hexa- decanoate	79-81-2	>= 10 - < 30 *
(dl)-a-Tocopheryl ace- tate	2H-1- Benzopyran-6- ol, 3,4-dihydro- 2,5,7,8- tetramethyl-2- (4,8,12- trimethyl- tridecyl)-, 6- acetate	7695-91-2	>= 5 - < 10 *
Colecalciferol Colecalciferol Colecalciferol Colecalciferol Cyclohexanol, 3-[(2E)-2- [(1R,3aS,7aR)- 1-[(1R)-1,5- dimethylhex- yl]octahydro-7a- methyl-4H- inden-4- yli- dene]ethylidene] -4-methylene-, (1S		67-97-0	>= 0.1 - < 0.3 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek advice immediately. When symptoms persist or in all cases of doubt s 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 ple	nty of water.





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		Get medical atte Wash clothing b				
In case of eye contact		: Flush eyes with				
If swallowed		: If swallowed, DO Get medical atte	D NOT induce vomiting.			
Most important symptoms and effects, both acute and delayed		: May damage the Causes damage exposure.	e unborn child. e to organs through prolonged or repeated			
Prote	ection of first-aiders	and use the rec	ders should pay attention to self-protection, ommended personal protective equipment tial for exposure exists (see section 8).			
Note	es to physician	: Treat symptoma	atically and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known.
Specific hazards during fire	:	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. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment 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	:	Soak up with inert absorbent material.



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contair	nment and cleaning up	containment to ke can be pumped, s container. Clean up remaini absorbent. Local or national disposal of this m employed in the o determine which Sections 13 and	rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Conditions for safe storage	 environment. Keep in properly labeled containers. Store locked up. Keep tightly closed.
Materials to avoid	 Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Vitamin A Palmitate	79-81-2	TWA	>= 1 < 10 ug/m3 (OEB 4)	Internal
(dl)-a-Tocopheryl acetate	7695-91-2	TWA	5000 ug/m3 (OEB	Internal



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		I			1)		
Colec	alciferol		67-97-0	TWA Wipe limit	5 μg/m3 (OEB 4) 50 μg/100 cm ²	Internal Internal	
Engir	neering measures	:					
Perso	onal protective equip	ment					
	iratory protection	:	If adequate lo	essment demon	tilation is not availabl strates exposures ou e respiratory protectio	tside the	
	ter type protection	:	Organic vapor Type				
Ма	aterial	:	Chemical-resistant gloves				
Re	emarks	:	on the concent time is not det For special ap resistance to o gloves with the	tration specific ermined for the plications, we re chemicals of the	ds against chemicals to place of work. Brea product. Change glo ecommend clarifying a aforementioned pro- cturer. Wash hands b cday.	akthrough ves often! the tective	
Eye p	rotection	:		wing personal p	protective equipment:		
Skin a	and body protection	:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective				
Hygie	ne measures	:	clothing (gloves, aprons, boots, etc). 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.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	yellow
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	-5 °C
Initial boiling point and boiling range	:	194 °C

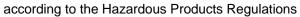
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	Flash p	point	:	244 °C	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper ibility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	0.9 - 0.94	
	Density	/	:	No data available	
	Solubili Wat	ity(ies) er solubility	:	practically insolul	ble
	Solu	ubility in other solvents	:	slightly soluble Solvent: Ethanol	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, dynamic	:	68.41 - 68.81 mF Method: Brookfie	
	Visc	cosity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance o	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)
	Particle	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY





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Che Pos tion Cor Inco Haz	activity emical stability ssibility of hazardous reac- s nditions to avoid ompatible materials zardous decomposition ducts	:	 Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents. None known. Oxidizing agents No hazardous decomposition products are known. 				
SECTIO	N 11. TOXICOLOGICAL I	NFC	ORMATION				
Inha Skir Inge Eye	ormation on likely routes alation n contact estion e contact	of	exposure				
	ite toxicity classified based on availa	ble	information.				
Pro	duct:						
Acu	ite oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method			
Acu	ite inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist			
Acu	ite dermal toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method			
<u>Cor</u>	nponents:						
	amin A Palmitate: Ite oral toxicity	:	LD50 (Rat): > 5,0 Remarks: Based	00 mg/kg on data from similar materials			
(dl)	-a-Tocopheryl acetate:						
Acu	ite oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg			
Acu	ite dermal toxicity	:	LD50 (Rat): > 3,0 Assessment: The toxicity	00 mg/kg substance or mixture has no acute dermal			
Col	ecalciferol:						
Acu	ite oral toxicity	:	LD50 (Rat, male):	: 35 mg/kg			
Acu	ite inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju	h dust/mist			

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Acu	ite dermal toxicity	: Acute toxicity es Method: Expert j	
	n corrosion/irritation classified based on avail	able information.	
<u>Co</u>	<u>mponents:</u>		
Vita	amin A Palmitate:		
	ecies thod sult	: Rabbit : OECD Test Guid : Mild skin irritation	
	Jun		
(dl)	-a-Tocopheryl acetate:		
	ecies	: Rabbit	
Met Res	thod	: OECD Test Guid : No skin irritation	deline 404
Rea	Suit	. INO SKITTITIALIOTT	
Ser	ious eye damage/eye ir	ritation	
Not	classified based on avail	able information.	
<u>Co</u>	<u>mponents:</u>		
Vita	amin A Palmitate:		
	ecies	: Rabbit	
Res	sult thod	: No eye irritation : OECD Test Guid	Jolina 405
INE	linou	. OECD Test Guid	
(dl)	-a-Tocopheryl acetate:		
Spe	ecies	: Rabbit	
Res		: No eye irritation	
Met	hod	: OECD Test Guid	deline 405
Col	ecalciferol:		
	ecies	: Rabbit	
Res	sult	: No eye irritation	
Res	spiratory or skin sensiti	zation	
Ski	n sensitization		
Not	classified based on avail	able information.	
Res	spiratory sensitization		
Not	classified based on avail	able information.	
<u>Co</u>	nponents:		

Vitamin A Palmitate:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact

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Specie Metho Result	d	: Guinea pig : OECD Test : negative	: OECD Test Guideline 406				
(dl)-a-	Tocopheryl acetate	:					
Test T	ype s of exposure es	: Draize Test	Skin contact Humans				
0.1	- 1 - 16 1	0					
Test T	s of exposure es	: Maurer optin : Skin contact : Guinea pig : negative					
	cell mutagenicity assified based on av	ailable information					
	onents:						
	in A Palmitate:						
	oxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) tive				
Genote	oxicity in vivo	cytogenetic a Species: Mo Application F Method: OE	 Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative 				
(dl)-a-	Tocopheryl acetate						
	oxicity in vitro	: Test Type: C	Chromosome aberration test in vitro CD Test Guideline 473 ttive				
			Bacterial reverse mutation assay (AMES) CD Test Guideline 471 tive				
Genote	oxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion				
Colec	alciferol:						
	oxicity in vitro	Method: OE	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: equivocal				

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			Method: OECD To Result: negative	nosome aberration test in vitro			
Gen	Genotoxicity in vivo		Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Rat Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative Test Type: In vivo mammalian alkaline comet assay Species: Rat Application Route: Ingestion Result: positive				
	n cell mutagenicity - essment	:	Weight of evidenc	e does not support classification as a germ			
Not	cinogenicity classified based on availa	ble	information.				
	<u>nponents:</u>						
Spe App	a-Tocopheryl acetate: cies lication Route osure time	:	Rat Ingestion 104 weeks				
Res		:	negative				
-	roductive toxicity damage the unborn child						
<u>Con</u>	<u>nponents:</u>						
	min A Palmitate:						
Effe	cts on fetal development	:	Test Type: Embry Species: Monkey Application Route Result: positive	ro-fetal development			
-	roductive toxicity - As- ment	:	: Positive evidence of adverse effects on development from human epidemiological studies.				
(dl)-	a-Tocopheryl acetate:						
. ,	cts on fertility	: Test Type: Reproduction/Developmental toxicity screening test Species: Rat					
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			Application Rout Result: negative	
Effects	s on fetal development	::	Test Type: Emb Species: Rabbit Application Rout Result: negative	
	-single exposure assified based on avail	able	information.	
	-repeated exposure es damage to organs (L	_iver)	through prolonge	ed or repeated exposure.
Comp	onents:			
Vitam	in A Palmitate:			
Targe Asses	s of exposure t Organs sment	:	exposure.	to organs through prolonged or repeated
Rema	rks	:	Based on data f	rom similar materials
Colec	alciferol:			
Targe	s of exposure t Organs sment	:		Bone ce significant health effects in animals at cor) mg/kg bw or less.
Repea	ated dose toxicity			
Comp	onents:			
Vitam	in A Palmitate:			
Specie		:	Rat	
LOAE		:	> 1 - 10 mg/kg	
	ation Route sure time	÷	Ingestion 3 Months	
Rema		:		rom similar materials
(dl)-a-	Tocopheryl acetate:			
Specie	• •		Rat	
NOAE		:	500 mg/kg	
	ation Route sure time	:	Ingestion 90 Days	
Colec	alciferol:			
Specie	es	:	Rat	
NOAE	E	:	0.06 mg/kg	
	L	:	0.3 mg/kg Ingestion	
LOAE	ation Route	~		

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Expo Metho	sure time od	: 90 Days : OECD Test Gu	ideline 408
-	ration toxicity lassified based on ava	ilable information.	
Expe	rience with human e	xposure	
Com	ponents:		
Vitan	nin A Palmitate:		
Inges	tion	Symptoms: Em	r impairment ed on data from similar materials bryo-fetal toxicity. ed on data from similar materials
SECTION	12. ECOLOGICAL IN	FORMATION	
	oxicity		

Components:

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l Exposure time: 96 h Method: DIN 38412 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 152.94 mg/l Exposure time: 72 h
(dl)-a-Tocopheryl acetate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l



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			Exposure time: 72 Method: OECD Te		
Toxic icity)	to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 100 mg/l d	
Toxic	Toxicity to microorganisms		EC50: > 927 mg/l Exposure time: 30 min Method: ISO 8192		
Cole	calciferol:				
Toxic	city to fish	:	LL50 (Danio rerio Exposure time: 96 Method: OECD Te		
	tity to daphnia and other tic invertebrates	:	EL50 (Daphnia ma Exposure time: 48 Method: OECD Te		
	Toxicity to algae/aquatic plants		EL50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201		
Pers	istence and degradabil	ity			
<u>Com</u>	ponents:				
	nin A Palmitate: egradability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD Te	0 - 50 %	
(dl)-a	a-Tocopheryl acetate:				
• •	egradability	:	Biodegradation: 2 Exposure time: 28	21.7 - 31 %	
Cole	calciferol:				
Biode	egradability	:	Result: Not readily Biodegradation: < Exposure time: 28 Method: OECD Te	x= 7 %	
Bioa	ccumulative potential				
<u>Com</u>	ponents:				
Vitan	nin A Palmitate:				



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	tion coefficient: n- nol/water	: log Pow: > 6.2		
Cole	calciferol:			
	tion coefficient: n- nol/water	: log Pow: > 6.2 Method: OECE) Test Guideline 107	
	i lity in soil ata available			
Othe	r adverse effects			
No d	ata available			

: Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
: Empty containers should be taken to an approved waste
handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

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

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SECTION 16. OTHER INFORMATION

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

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 Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	09/30/2023 mm/dd/yyyy

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

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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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