



Vers 5.2	sion	Revision Date: 06.04.2024		S Number: 150-00022	Date of last issue: 30.09.2023 Date of first issue: 23.01.2015
SEC	CTION 1 Produc	: IDENTIFICATION t name	:	Mirtazapine Solio	d Formulation
	Manufa	acturer or supplier's o	deta	ils	
	Compa	ny	:	Organon & Co.	
	Addres	S	:	30 Hudson Stree Jersey City, New	et, 33nd floor / Jersey, U.S.A 07302
	Teleph	one	:	+1-551-430-600	0
	Emerge	ency telephone numbe	r:	+1-215-631-6999	9
	E-mail	address	:	EHSSTEWARD	@organon.com
	Recom	mended use of the c	hem	ical and restriction	ons on use
	Recom	mended use	:	Pharmaceutical	
	Restric	tions on use	:	Not applicable	
SEC	TION 2	. HAZARDS IDENTIFI	САТ	ION	
		location			
		lassification		Category 2	
	ricpide		-		

Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H361fd Suspected of damaging fertility. Suspected of damag- ing the unborn child. H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.
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 dust. P280 Wear protective gloves/ protective clothing/ eye protec-



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tion/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

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

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
(+/-)-1,2,3,4,10,14b-Hexahydro-2- methylpyrazino[2,1-a]pyrido[2,3- c][2]benzazepine	85650-52-8	>= 10 -< 30
Starch	9005-25-8	>= 10 -< 30

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice 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 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. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	 Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed.



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Prote	ction of first-aiders	:	the skin. Dust contact with	can cause mechanical irritation or drying of the eyes can lead to mechanical irritation. ers should pay attention to self-protection,			
Notes to physician			and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.				
SECTION	5. FIREFIGHTING MEA	SU	RES				
Suitat	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
Unsui media	table extinguishing	:	None known.				
	fic hazards during fire-	:	concentrations, and potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.			
Hazaı ucts	rdous combustion prod-	:	Carbon oxides Silicon oxides				
Speci ods	fic extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do			
	al protective equipment ofighters	:		e, wear self-contained breathing apparatus. tective 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 pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration.



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		posal of this m employed in th mine which re Sections 13 a	nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
SECTION	7. HANDLING AND S	TORAGE	
Techr	nical measures	causing an ex Provide adequ	ty may accumulate and ignite suspended dust plosion. Jate precautions, such as electrical grounding or inert atmospheres.
	/Total ventilation e on safe handling	 Use only with Do not breathed Do not swallow Avoid contact Avoid prolong Handle in accel practice, base sessment Minimize dust Keep contained Keep away from Take precaution 	adequate ventilation. e dust. w.
Hygie	ne measures	flushing system place. When using d	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke.
Condi	itions for safe storage	: Keep in prope Store locked u	
Mater	ials to avoid		dance with the particular national regulations. vith the following product types: ng agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
(+/-)-1,2,3,4,10,14b- Hexahydro-2- methylpyrazino[2,1- a]pyrido[2,3-c][2]benzazepine	85650-52-8	TWA	25 µg/m3	Internal
		Wipe limit	250 µg/100 cm ²	Internal
Starch	9005-25-8	TWA	10 mg/m3	AU OEL

Components with workplace control parameters



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Ι		I		TWA	10 mg/m3	ACGIH	
					10 mg/m3	ACGIN	
Engi	 Engineering measures Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). 						
Pers	onal protective equip	ment					
Fi	Respiratory protection : Filter type : Hand protection		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type				
М	laterial	:	Chemical-res	istant gloves			
Remarks		:	on the concer stance and sp determined for applications, chemicals of	ntration and qua becific to place or the product. Of we recommend the aforemention cturer. Wash ha	nds against chemical antity of the hazardou of work. Breakthroug Change gloves often! clarifying the resista ned protective gloves ands before breaks a	is sub- h time is not For special nce to s with the	
Eye p	protection	:	 Wear the following personal protective equipment: Safety goggles 				
Skin	and body protection	:	Select appropresistance da potential. Skin contact r	priate protective ta and an asses	clothing based on cl ssment of the local ex d by using impervious ts, etc).	xposure	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
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

SAFETY DATA SHEET



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F	Flash p	oint	:	Not applicable	
E	Evapora	ation rate	:	No data available	
F	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
F	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
١	Vapour	pressure	:	No data available	9
F	Relative	e vapour density	:	No data available	
F	Relative	e density	:	No data available)
0	Density		:	No data available)
S	Solubili Wate	ty(ies) er solubility	:	No data available	9
	Partition	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
C	Decom	position temperature	:	No data available	
١	Viscosit Visc	ty osity, dynamic	:	No data available)
	Visc	osity, kinematic	:	No data available)
E	Explosi	ve properties	:	Not explosive	
C	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
Ν	Molecu	lar weight	:	No data available)
	Particle Particle	characteristics size	:	No data available	3

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.



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Poss tions	ibility of hazardous reac-	:	dling or other n	osive dust-air mixture during processing, han- neans. strong oxidizing agents.			
Conc	Conditions to avoid : Heat, flames and sparks.						
Incompatible materials Hazardous decomposition products			Avoid dust formation.Oxidizing agentsNo hazardous decomposition products are known.				
SECTION	11. TOXICOLOGICAL I	NFC	RMATION				
Expo	sure routes	:	Inhalation Skin contact Ingestion Eye contact				
	e toxicity classified based on availa	ble i	nformation.				
Prod	luct:						
Acute	e oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method					
<u>Com</u>	ponents:						
	1,2,3,4,10,14b-Hexahyd e oral toxicity	r o-2 :	-methylpyrazin LD50 (Rat): 320	o[2,1-a]pyrido[2,3-c][2]benzazepine:) - 490 mg/kg			
Star							
Acute	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg			
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg			
Not c	corrosion/irritation						
	bus eye damage/eye irri classified based on availa						
<u>Com</u>	ponents:						
Stard Spec Resu	ties	:	Rabbit No eye irritatior	1			
Resp	biratory or skin sensitis	atio	n				
	sensitisation						
-	classified based on availa	ble i	nformation.				



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Respiratory sensitisation

Not classified based on available information.

Components:

Starch:

est

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:				
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative			
	Test Type: unscheduled DNA synthesis assay Test system: mammalian cells Result: negative			
	Test Type: sister chromatid exchange assay Test system: mammalian cells Result: negative			
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Rat Cell type: Bone marrow Application Route: Oral Result: negative			
Starch:				
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative			

Carcinogenicity

Not classified based on available information.

Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine: Species : Mouse



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Application Route Exposure time LOAEL Result Target Organs	:	Oral 18 month(s) 200 mg/kg body weight equivocal Liver
Species Application Route Exposure time LOAEL Result Target Organs	:	Rat Oral 2 Years 20 mg/kg body weight equivocal Liver, Thyroid

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine	(+/-)-1,2,3,4,10,14b	Hexahydro-2-m	nethylpyrazino[2	,1-a]pyrido[2,3-c]	[2]benzazepine:
---	----------------------	---------------	------------------	--------------------	-----------------

() ()		
Effects on fertility	:	Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: LOAEL: 15 mg/kg body weight Symptoms: Effect on estrous cycle, Increase of early resorp- tions Result: Animal testing did not show any effects on fertility., Embryotoxic effects and adverse effects on the offspring were detected.
Effects on foetal develop- ment	:	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 100 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected., No teratogenic effects
		Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 40 mg/kg body weight Result: No adverse effects, No teratogenic effects
Reproductive toxicity - As- sessment	:	Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.



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STOT - repeated exposure

May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:

	-	
Exposure routes Target Organs Assessment		Ingestion Nervous system May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Species	:	Rat
LOAEL	:	120 mg/kg
Application Route	:	Oral
Exposure time	:	13 Weeks
Target Organs	:	Nervous system
Species	:	Dog
LOAEL	:	15 mg/kg
Application Route	:	Oral
Exposure time	:	52 Weeks
Target Organs	:	Nervous system
Symptoms	:	Tremors
Species	:	Dog
LÕAEL	:	20 mg/kg
Application Route	:	Oral
Exposure time	:	13 Weeks
Target Organs	:	Nervous system, Testis
Symptoms	:	Tremors
Starch:		

Species	:	Rat
NOAEL	:	>= 2,000 mg/kg
Application Route	:	Skin contact
Exposure time	:	28 Days
Method	:	OECD Test Guideline 410

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:



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Inges		:	Dizziness, Disc	owsiness, constipation, dry mouth, asthenia, prientation
ECTION	12. ECOLOGICAL INFO	DRN	IATION	
Ecoto	oxicity			
<u>Com</u>	ponents:			
	1,2,3,4,10,14b-Hexahyd ity to fish	ro-2 :		
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	n magna (Water flea)): 19.5 mg/l 48 h
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): 5.7 72 h 7 Test Guideline 201
			mg/l Exposure time:	okirchneriella subcapitata (green algae)): 3.2 72 h 7 Test Guideline 201
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time:	nales promelas (fathead minnow)): 3.6 mg/l 31 d 7 Test Guideline 210
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time:	a magna (Water flea)): 0.32 mg/l 21 d Test Guideline 211
Toxic	ity to microorganisms	:	Exposure time: Test Type: Res	microorganism): > 1,000 mg/l 3 h piration inhibition Test Guideline 209
			Exposure time: Test Type: Res	microorganism): < 100 mg/l 3 h piration inhibition Test Guideline 209

Persistence and degradability

No data available



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5.			
	ccumulative potentia ponents:	I	
		vdro-2-methylpyrazi	no[2,1-a]pyrido[2,3-c][2]benzazepine:
	ccumulation	: Species: Onco Bioconcentrati	orhynchus mykiss (rainbow trout) on factor (BCF): 334 D Test Guideline 305
	ion coefficient: n- nol/water	: log Pow: 2.78	
Mobi	lity in soil		
Com	ponents:		
Distri	1,2,3,4,10,14b-Hexah bution among environ- al compartments		no[2,1-a]pyrido[2,3-c][2]benzazepine:
••	r adverse effects ata available		
ECTION	13. DISPOSAL CON	SIDERATIONS	
Disp	osal methods		
•	e from residues		e of waste into sewer.
Conta	aminated packaging	: Empty contain	accordance with local regulations. ers should be taken to an approved waste har

SECTION 14. TRANSPORT INFORMATION

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
Environmentally hazardous	:	no
	•	
IATA-DGR		
IATA-DGR UN/ID No.	:	Not applicable
	:	Not applicable Not applicable
UN/ID No.	:	Not applicable
UN/ID No. Proper shipping name Class	:	Not applicable Not applicable
UN/ID No. Proper shipping name Class Subsidiary risk	:	Not applicable Not applicable Not applicable
UN/ID No. Proper shipping name Class		Not applicable Not applicable Not applicable Not applicable
UN/ID No. Proper shipping name Class Subsidiary risk Packing group		Not applicable Not applicable Not applicable

dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.



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aircr	/			
	king instruction (passen- aircraft)	:	Not applicable	
IMD	G-Code			
UN r	number	:	Not applicable	
Prop	er shipping name	:	Not applicable	
Clas	S	:	Not applicable	
Subs	sidiary risk	:	Not applicable	
Pack	king group	:	Not applicable	
Labe	els	:	Not applicable	
EmS	S Code	:	Not applicable	
Mari	ne pollutant	:	Not applicable	
Tran	sport in bulk according	g to	Annex II of MARP	OL 73/78 and the IBC Code
	applicable for product as	-		

Not applicable for product as supplied.

National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Therapeutic Goods (Poisons	:	No poison schedule number allocated (Please use the original
Standard) Instrument		publication to check for specific uses, specific conditions or
		threshold limits that might apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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



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SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information			
Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Date format	:	dd.mm.yyyy	
Full text of other abbreviation	ons		
ACGIH AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.	
ACGIH / TWA AU OEL / TWA	:	8-hour, time-weighted average Exposure standard - time weighted average	

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be





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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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