

Versior 8.7	n Revision Date: 26.09.2023		S Number: 482-00022	Date of last issue: 20.03.2023 Date of first issue: 16.10.2014			
SECTI	SECTION 1. IDENTIFICATION						
Pr	Product name		Posaconazole Injection Formulation				
M	anufacturer or supplier's	s deta	ils				
Co	ompany	:	MSD				
Ad	Address		855 Leandro N. Alem St., 8 Floor Buenos Aires, Argentina C1001AFB				
T€	Telephone		908-740-4000				
Er	Emergency telephone		1-908-423-6000				
E-	mail address	:	: EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use				ons on use			
	Recommended use Restrictions on use		Pharmaceutical Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Skin sensitization	:	Category 1
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Adrenal gland, Bone marrow, Kidney, Liver, Nerv- ous system, Reproductive organs)
Short-term (acute) aquatic hazard	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction. H373 May cause damage to organs (Adrenal gland, Bone mar- row, Kidney, Liver, Nervous system, Reproductive organs) through prolonged or repeated exposure if swallowed. H412 Harmful to aquatic life with long lasting effects.



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Preca	autionary Statements	P272 Contam the workplace P273 Avoid re	preathe mist or vapors. inated work clothing should not be allowed out of elease to the environment. otective gloves.
		P314 Get med P333 + P313 vice/ attention	IF ON SKIN: Wash with plenty of water. dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad- Take off contaminated clothing and wash it before
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste
Othe	r hazards which do n		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
.betaCyclodextrin, sulfobutyl ethers, sodium	182410-00-0	>= 30 -< 50
salts		
Posaconazole	171228-49-2	>= 1 -< 2,5

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	:	Flush eyes with water as a precaution. 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	:	Diarrhea



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and effects, both acute and delayed		Fever Headache Nausea Vomiting	
			an allergic skin reaction. damage to organs through prolonged or repeated swallowed.
Prote	ction of first-aiders	: First Aid res and use the	ponders should pay attention to self-protection, recommended personal protective equipment otential for exposure exists (see section 8).
Notes	to physician		comatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		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 Sulfur oxides Metal 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 : containment and cleaning up	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable



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		disposal of th employed in t determine wh Sections 13 a	anal regulations may apply to releases and is material, as well as those materials and items the cleanup of releases. You will need to nich regulations are applicable. and 15 of this SDS provide information regarding or national requirements.			
SECTION	7. HANDLING AND ST	ORAGE				
Techr	nical measures	5	ring measures under EXPOSURE PERSONAL PROTECTION section.			
	/Total ventilation		Use only with adequate ventilation.			
Advic	e on safe handling	Do not breath Do not swallo Avoid contact Wash skin the Handle in acc practice, base assessment Do not eat, di				
Cond	itions for safe storage	: Keep in properly labeled containers. Store in accordance with the particular national regulation				
Mater	ials to avoid	 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
Posaconazole	171228-49-2	TWA	300 µg/m3 (OEB 2)	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipment	
Description in a standard	If a lawyers lavel and every continuing is not every lable, an

Respiratory protection : If adequate local exhaust ventilation is not available or



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Filter type Hand protection Material Eye protection		exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.Particulates type				
		 Chemical-resistant gloves 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. 				
	and body protection ene measures	: If exposure to eye flushing working plac When using Contaminate workplace. Wash contar The effective engineering appropriate of industrial hyg	n or laboratory coat. o chemical is likely during typical use, provide systems and safety showers close to the e. do not eat, drink or smoke. d work clothing should not be allowed out of the ninated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	Colorless to pale yellow
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	2,6
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	:	No data available

SAFETY DATA SHEET



Posaconazole Injection Formulation

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flamma	ability limit			
Vapor	pressure	:	No data available	9
Relativ	ve vapor density	:	No data available	9
Relativ	ve density	:	No data available	9
Densit	у	:	1,15 g/cm ³	
	lity(ies) ter solubility	:	No data availabl	9
	on coefficient: n- ol/water	:	Not applicable	
	nition temperature	:	No data availabl	9
Decon	nposition temperature	:	No data availabl	9
Viscos Vis	ity cosity, kinematic	:	No data available	9
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance of	r mixture is not classified as oxidizing.
Molec	ular weight	:	No data available	9
Particl	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.



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<u>Com</u>	oonents:			
.beta	-Cyclodextrin, sulf	obutyl ethers,	sodium sa	ts:
	oral toxicity	-	(Rat): > 8.80	
_				
	conazole: e oral toxicity	: LD50	(Rat): > 5.00	
Acute			. ,	
		LD50	(Mouse): > 3	3.000 mg/kg
Acute	e dermal toxicity	: LD50	(Rat): > 2.00)0 mg/kg
Skin	corrosion/irritation			
Not cl	lassified based on av	ailable informa	ation.	
<u>Comp</u>	oonents:			
Posa	conazole:			
Speci		: Rabbi		
Resul	IL	. INU SK	n irritation	
	lassified based on av ponents:			
Posa	conazole:			
<u> </u>		: Rabbi		
Speci		. Milel e		
Speci Resul		: Mild e	ye irritation	
Resul			ye irritation	
Resul	lt		ye irritation	
Resul Resp Skin	lt iratory or skin sens	itization	ye irritation	
Resul Resp Skin s May o Resp	It iratory or skin sens sensitization cause an allergic skir iratory sensitization	reaction.		
Resul Resp Skin : May o Resp Not cl	It iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av	reaction.		
Resul Resp Skin May c Resp Not cl <u>Comp</u>	it iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av ponents:	itization reaction. n ailable informa	ition.	
Resul Resp Skin : May c Resp Not cl <u>Comp</u> .beta	It iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av <u>conents:</u> Cyclodextrin, sulf	itization reaction. n vailable informa	ation. sodium sa	
Resul Resp Skin : May c Resp Not cl <u>Comp</u> .beta	it iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av ponents:	itization reaction. n vailable informa	ation. sodium sa	
Resul Resp Skin : May c Resp Not cl <u>Comp</u> .beta. Asses	It iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av <u>conents:</u> Cyclodextrin, sulf	itization reaction. n vailable informa	ation. sodium sa	
Resul Resp Skin : May c Resp Not cl Comp .beta. Asses Posa Test	It iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av <u>conents:</u> Cyclodextrin, sulf ssment conazole: Type	itization reaction. n railable informa obutyl ethers, : Proba : Magnu	ation. sodium sa i bility or evid usson-Kligm	ence of skin sensitization in human
Resul Resp Skin : May c Resp Not cl <u>Comp</u> .beta. Asses Posa Test T Route	iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av <u>conents:</u> Cyclodextrin, sulf ssment conazole: Type es of exposure	sitization n reaction. n vailable informa obutyl ethers, : Proba : Magnu : Skin c	ation. sodium sa bility or evid usson-Kligm ontact	ence of skin sensitization in human
Resul Resp Skin : May c Resp Not cl Comp .beta. Asses Posa Test	iratory or skin sens sensitization cause an allergic skir iratory sensitization lassified based on av <u>conents:</u> Cyclodextrin, sulf ssment conazole: Type es of exposure	itization reaction. n railable informa obutyl ethers, : Proba : Magnu	ation. sodium sa bility or evid usson-Kligm ontact a pig	ence of skin sensitization in human

Not classified based on available information.



rsion	Revision Date: 26.09.2023	SDS Number: 22482-00022	Date of last issue: 20.03.2023 Date of first issue: 16.10.2014
<u>Com</u>	oonents:		
Posa	conazole:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: Ch Result: negati	romosomal aberration ve
Geno	toxicity in vivo	Species: Mous Cell type: Bon	e marrow bute: Intravenous
	nogenicity lassified based on availa	able information.	
<u>Com</u>	oonents:		
Posa	conazole:		
Speci		: Rat	
	cation Route	: oral (feed)	
Expos	sure time	: 2 Years : positive	
Rema			m or mode of action is not relevant in humans
Speci		: Mouse	
	cation Route	: Oral	
Expo: Resul	sure time	: 2 Years : positive	
Rema		•	m or mode of action is not relevant in humans
Repro	oductive toxicity		
Not c	assified based on availa	able information.	
Com	oonents:		
	-Cyclodextrin, sulfobu	•	
Fileci	s on fertility	: Test Type: Fe Species: Rat	rtility
			oute: Intravenous injection ve
Effect	s on fetal development		nbryo-fetal development
		Species: Rat Application Ro Result: negation	oute: Intravenous injection ve
Posa	conazole:		
	s on fertility	: Test Type: Fe	rtility/early embryonic development
	·	Species: Rat,	
			o effects on mating performance.



ersion 7	Revision Date: 26.09.2023		DS Number: 2482-00022	Date of last issue: 20.03.2023 Date of first issue: 16.10.2014
			Result: negative	
			Species: Rat, fe General Toxicity	Parent: NOAEL: 45 mg/kg body weight effects on mating performance.
Effect	s on fetal development	:	Species: Rat, fe Application Rou Developmental	
			Species: Rabbit	Toxicity: LOAEL: 40 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	Some evidence animal experime	of adverse effects on development, based on ents.
STOT	-single exposure			
Not cl	assified based on availa	able	information.	
STOT	-repeated exposure			
	cause damage to organs ctive organs) through pr			e marrow, Kidney, Liver, Nervous system, Re- exposure if swallowed.
<u>Comp</u>	oonents:			
Posa	conazole:			
	es of exposure et Organs	:	Ingestion	Bone marrow Kidney Liver Reproductive

Routes of exposure	:	Ingestion
Target Organs	:	Adrenal gland, Bone marrow, Kidney, Liver, Reproductive
		organs, Nervous system
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Posaconazole:		
Species LOAEL Application Route Exposure time Target Organs		Rat, female 5 mg/kg Oral 6 Months Adrenal gland, Lungs, Heart, Liver, spleen, Kidney, Ovary
Species LOAEL Application Route Exposure time Target Organs	: : :	Dog 3 mg/kg Oral 392 Days Lungs, Liver, Brain, small intestine, Adrenal gland, Spinal cord, lymphoid tissue



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_			
Spec		: Monkey	
LOAE		: 15 mg/kg	
	cation Route	: Oral	
	sure time	: 1 Months	Adrenel gland Lymph pades Plead
Targe	et Organs	. Done marrow,	Adrenal gland, Lymph nodes, Blood
Spec	ies	: Dog	
LÒAE	EL	: 3 mg/kg	
Appli	cation Route	: Oral	
	sure time	: 56 Weeks	
Targe	et Organs		, Bone marrow, Kidney, Nervous system,
		spleen, thymu	is gland, Testis, lymphoid tissue
Spec	ies	: Monkey	
LÖAE		: 180 mg/kg	
Appli	cation Route	: Oral	
Expo	sure time	: 12 Months	
Targe	et Organs	: Blood, Gastro	intestinal tract, spleen
Spec	ies	: Monkey	
LÒAE	EL	: 8 mg/kg	
Appli	cation Route	: Intravenous	
	sure time	: 1 Months	
Targe	et Organs	: Cardio-vascul	ar system, Lungs, Adrenal gland, Blood
۵snii	ration toxicity		
-	lassified based on ava	ailable information.	
Expe	rience with human e	exposure	
Com	ponents:		
Posa	conazole:		
Inges	stion	: Symptoms: Co	ough, Headache, Nausea, Vomiting, Fever, Liv
			pruritis, Diarrhea, hypertension, neutropenia,
ECTION	12. ECOLOGICAL IN	FORMATION	
Ecot	oxicity		
Com	ponents:		
<u></u>	201101101		

.beta.-Cyclodextrin, sulfobutyl ethers, sodium salts:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 220 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 96 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 72 h



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Posad	conazole:			
Toxici	ty to fish	:	Exposure time: 96 Method: OECD To	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity to algae/aquatic plants		EC50 (Pseudokiro 0,509 mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
	ctor (Acute aquatic tox-	:	1	
icity) Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21 Method: OECD To	
	ctor (Chronic aquatic	:	1	
toxicit <u>;</u> Toxici	y) ty to microorganisms	:	EC50 (Natural mid Exposure time: 3 Test Type: Respir Method: OECD To	ation inhibition
Persis	stence and degradabili	ity		
Comp	onents:			
	conazole: gradability	:	Result: Not readily Biodegradation: 5 Exposure time: 28 Method: OECD To	50 % 3 h
Stabili	ty in water	:	Degradation half I Method: OECD To	



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Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Posa	aconazole:			
Bioa	ccumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 20 est Guideline 305
	tion coefficient: n- nol/water	:	log Pow: 4,15	
Mob	ility in soil			
Com	ponents:			
Posa	aconazole:			
	ibution among environ- al compartments	:	log Koc: 5,52	
Othe	er adverse effects			
No d	ata available			

Disposal methods

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 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.

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Argentina. Carcinogenic Substances and Agents

: Not applicable



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Regist	ry.				
	Control of precursors and essential chemicals for the : Not applicable preparation of drugs.				
	gredients of this proc	-	ne following inventories:		
AICS		: not determined			
DSL		: not determined			
IECSC	;	: not determined			

SECTION 16. OTHER INFORMATION

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Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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 - Transporta-



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tion 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 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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