SAFETY DATA SHEET



Caspofungin Formulation

Version 5.1	Revision Date: 26.09.2023		S Number: 273-00024	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014			
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION							
Product name		:	Caspofungin Formulation				
Manu	facturer or supplier's	s detai	ils				
Comp	pany	:	MSD				
Address		:	Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340				
Telep	hone	:	908-740-4000				
Emer	Emergency telephone		1-908-423-6000				
E-mail address		:	EHSDATASTEWARD@msd.com				
Recommended use of the chem			ical and restriction	ons on use			
Recommended use Restrictions on use		:	Pharmaceutical Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard Serious eye damage : Category 1							
Effects on or via lactation							
Short-term (acute) aquatic hazard	:	Category 1					
Long-term (chronic) aquatic hazard	:	Category 1					
GHS label elements in accord	lan	ce with ABNT NBR 14725 Standard					
Hazard pictograms	:						
Signal Word	:	Danger					
Hazard Statements	:	H318 Causes serious eye damage. H362 May cause harm to breast-fed children. H410 Very toxic to aquatic life with long lasting effects.					
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P260 Do not breathe dust.					



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P273 Avoid release to the environment. P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P391 Collect spillage.

Other hazards which do not result in classification

May form explosive dust-air mixture during processing, handling or other means.

: Mixture

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Caspofungin	179463-17-3	Serious eye damage, Category 1 Effects on or via lacta- tion, Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 30 -< 50
Sucrose	57-50-1		>= 30 -< 50
Acetic acid	64-19-7	Flammable liquids, Category 3 Acute toxicity (Oral), Category 5 Skin corrosion, Category 1A Serious eye damage, Category 1	>= 1 -< 3

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	: Get medical attention.
In case of skin contact	: Wash with water and soap. Get medical attention.
In case of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn.



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Most	allowed important symptoms effects, both acute and red	:	Get medical a Causes serior	ttention immediately. ttention. is eye damage. rm to breast-fed children.			
	ection of first-aiders	:	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).				
Note	s to physician	:	Treat symptor	natically and supportively.			
SECTION	5. FIRE-FIGHTING ME	ASU	RES				
Suita	ble extinguishing media	:	Water spray Alcohol-resist Carbon dioxid Dry chemical				
Unsu medi	iitable extinguishing a	:	: None known.				
Spec fighti	ific hazards during fire ng	 Use extinguishing measures that are appropriate to local or cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe t so. Evacuate area. 					
Haza ucts	rdous combustion prod-						
Spec ods	ific extinguishing meth-						
	ial protective equipment e-fighters						

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. 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 container 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 surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and



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		employed in th determine wh Sections 13 a	s material, as well as those materials and items ne cleanup of releases. You will need to ich regulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
SECTION	7. HANDLING AND S	FORAGE	
	nical measures	causing an ex Provide adequ and bonding,	uate precautions, such as electrical grounding or inert atmospheres.
	/Total ventilation e on safe handling	: Avoid contact Do not breath Do not swallor Do not get in o Avoid prolong Wash skin tho Handle in acc practice, base assessment Keep containe Keep containe Keep away fro Take precauti Do not eat, dr	w.
Hygie	ene measures	: If exposure to flushing syste 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.
Cond	itions for safe storage	: Keep in prope Keep tightly c	
Mater	rials to avoid		dance with the particular national regulations. vith the following product types: ng agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Componente			Control parama	Pooio
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Caspofungin	179463-17-3	TWA	140 µg/m3 (OEB	Internal
			2)	
Sucrose	57-50-1	TWA	10 mg/m ³	ACGIH
Acetic acid	64-19-7	LT	8 ppm	BR OEL
			20 mg/m ³	

Ingredients with workplace control parameters



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		Further information: Degree of harmfulness: medium					
			TWA	10 ppm	ACGIH		
			STEL	15 ppm	ACGIH		
Engiı	neering measures	Minim Apply Ensur dust c design	ize workplace expo measures to preve e that dust-handlin ollectors, vessels, and in a manner to	tion, especially in cor osure concentrations. Int dust explosions. g systems (such as e and processing equip prevent the escape o o leakage from the e	exhaust ducts, oment) are of dust into the		
Perso	onal protective equip	ment					
Resp	Respiratory protection :		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.				
	Filter type : Hand protection		Combined particulates and organic vapor type				
M	aterial	: Chem	: Chemical-resistant gloves				
Re	Remarks : Eye protection :		 Choose gloves to protect hands against chemicals dependin on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield 				
Eye p							
Skin a	and body protection	: Selec resista poten Skin c	t appropriate protec ance data and an a tial.	ctive clothing based of ssessment of the loc bided by using imperv boots, etc).	al exposure		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	off-white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available

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Fla	Flash point		Not applicable			
Ev	Evaporation rate		Not applicable			
Fla	Flammability (solid, gas)		May form explosi handling or other	ive dust-air mixture during processing, means.		
Fla	Flammability (liquids)		Not applicable			
	oper explosion limit / Upper mmability limit	:	No data available			
	wer explosion limit / Lower mmability limit	:	No data available	9		
Va	por pressure	:	Not applicable			
Re	elative vapor density	:	Not applicable			
Re	elative density	:	No data available	9		
De	ensity	:	No data available	9		
Sc	lubility(ies) Water solubility	:	No data available	9		
	ntition coefficient: n- tanol/water	:	Not applicable			
	itoignition temperature	:	No data available	9		
De	ecomposition temperature	:	No data available	9		
Vis	scosity Viscosity, kinematic	:	Not applicable			
Ex	plosive properties	:	Not explosive			
O	Oxidizing properties		The substance o	r mixture is not classified as oxidizing.		
Мо	plecular weight	:	: No data available			
Mi	nimum ignition energy	:	100 - 300 mJ			
			30 - 100 mJ			
Pa	article size	:	No data available	9		

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	May form explosive dust-air mixture during processing,



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tions			handling or other Can react with st	rmeans. rong oxidizing agents.			
Incon Haza	Conditions to avoid Incompatible materials Hazardous decomposition products		 Heat, flames and sparks. Avoid dust formation. Oxidizing agents No hazardous decomposition products are known. 				
ECTION	11. TOXICOLOGICAL I	NF	ORMATION				
Inforr expo	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact				
	e toxicity lassified based on availa	ble	information.				
Prod	<u>uct:</u>						
Acute	e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5.000 mg/kg on method			
<u>Com</u>	ponents:						
-	oofungin: e oral toxicity	:	LD50 (Mouse): >	2.000 mg/kg			
	e toxicity (other routes of nistration)	:	LD50 (Mouse): 19 Application Route				
			LD50 (Rat): 38 m Application Route				
Sucr	ose:						
Acute	e oral toxicity	:	LD50 (Rat): 29.70	00 mg/kg			
Aceti	ic acid:						
Acute	e oral toxicity	:	LD50 (Rat): > 2.0 Remarks: Based	00 - 5.000 mg/kg on data from similar materials			
Acute	e inhalation toxicity	:	Assessment: Corr	rosive to the respiratory tract.			
Acute	e dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	5.000 mg/kg on data from similar materials			
-	corrosion/irritation lassified based on availa	ble	information.				
<u>Com</u>	ponents:						
Casp	ofungin:						
- 6	:	-	Dabbit				



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Resu	ılt	: Mild skin	irritation
Acet	ic acid:		
Spec Resu		: Rabbit : Corrosive	after 3 minutes or less of exposure
	ous eye damage/eye ses serious eye dama		
<u>Com</u>	ponents:		
Casp Spec Resu Meth	ılt		le effects on the eye ornea (BCOP)
Acet	ic acid:		
Spec Resu		: Rabbit : Irreversib	le effects on the eye
Resp	piratory or skin sens	sitization	
Resp Not c Gern	classified based on a biratory sensitization classified based on av n cell mutagenicity classified based on av	n /ailable informatio	٦.
<u>Com</u>	ponents:		
	oofungin: otoxicity in vitro		e: Chromosomal aberration em: Chinese hamster ovary cells egative
		Test Type Result: ne	e: Bacterial reverse mutation assay (AMES) egative
			e: Alkaline elution assay em: rat hepatocytes egative
			e: In vitro mammalian cell gene mutation test em: Chinese hamster fibroblasts egative
Genc	otoxicity in vivo	Species:	Bone marrow



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Sucros	SO.			
	oxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
Acetic	acid:			
	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: Chrom Result: negative	nosome aberration test in vitro
			Test Type: DNA c thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)
			Result: equivocal	o mammalian cell gene mutation test on data from similar materials
Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Rat Application Route Result: negative	nalian erythrocyte micronucleus test (in vivo
Not cla	ogenicity ssified based on availa onents:	able	information.	
	s ation Route ure time	: : :	Mouse Skin contact 32 weeks negative	
-	ductive toxicity ause harm to breast-feo	d ch	ildren	
-	onents:			
-	fungin: on fertility	:	Fertility: NOAEL F	e and female : Intravenous injection Parent: 5 mg/kg body weight s on fertility and early embryonic
Effects	on fetal development	:	Species: Rat	ro-fetal development : Intravenous injection



ersion 1	Revision Date: 26.09.2023		OS Number: 273-00024	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
			Embryo-fetal tox Symptoms: Abn	v Maternal: LOAEL: 5 mg/kg body weight kicity.: NOAEL F1: 2 mg/kg body weight ormalities of the musculosketal system. toxic effects and adverse effects on the letected.
			General Toxicity Developmental	te: Intravenous injection / Maternal: NOAEL: 3 mg/kg body weight Toxicity: NOAEL F1: >= 6 mg/kg body weigh toxic effects and adverse effects on the
Repro sessn	oductive toxicity - As- nent	:	Studies indicatir period	ng a hazard to babies during the lactation
Aceti	c acid:			
Effect	s on fetal development	:	Test Type: Emb Species: Rat Application Rou Result: negative	
Not cl STOT Not cl	-single exposure assified based on availa -repeated exposure assified based on availa			
•	ated dose toxicity			
	ofungin:			
Speci NOAE LOAE Applic Expos	es EL	:	Monkey 2 mg/kg 5 mg/kg Intravenous 27 Weeks daily Liver	
	E Cation Route	:	Rat 1,8 mg/kg Intravenous 27 Weeks Swelling of tissu	
	sure time toms	:	Swelling of ussu	ie



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Symp	Symptoms		Swelling of tis	sue
Acet	ic acid:			
		:	Rat 290 mg/kg Ingestion 8 Weeks	
Aspi	ration toxicity			
Not c	lassified based on av	ailable	information.	
<u>Com</u>	ponents:			
-	oofungin: spiration toxicity class	ificatio	า	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Caspofungin:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 2,4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 22,6 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 0,1 mg/l Exposure time: 72 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0,05 mg/l Exposure time: 72 h
M-Factor (Acute aquatic tox-	:	10
icity) Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0,084 mg/l Exposure time: 32 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0,67 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50: > 127 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209



ersion 1	Revision Date: 26.09.2023	-	9S Number: 273-00024	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
			NOEC: 38 mg/l Exposure time: Test Type: Res Method: OECD	3 h piration inhibition Test Guideline 209
Acetic	c acid:			
	ty to fish	:	Exposure time:	nchus mykiss (rainbow trout)): > 100 mg/l 96 h d on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: Method: OECD	magna (Water flea)): > 100 mg/l 48 h Test Guideline 202 d on data from similar materials
Toxici plants	ty to algae/aquatic	:	Exposure time:	nema costatum (marine diatom)): > 100 mg 72 h d on data from similar materials
			Exposure time:	nema costatum (marine diatom)): > 1 mg/l 72 h d on data from similar materials
	ty to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	a magna (Water flea)): > 1 mg/l 21 d
	ty to microorganisms	:	NOEC (Pseudo Exposure time:	monas putida): 1.150 mg/l 16 h
Persis	stence and degradabil	ity		
Comp	onents:			
•	ofungin: gradability	:	Biodegradation: Exposure time:	
Stabili	ty in water	:		If life (DT50): 2,8 h
	c acid: gradability	:	Result: Readily Biodegradation: Exposure time:	96 %
Bioac	cumulative potential			
	onents:			
<u>Comp</u>				



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octan	nol/water		
	ose: ion coefficient: n- iol/water	: Pow: < 1	
Partit	ic acid: ion coefficient: n- iol/water	: log Pow: -0,17	
	lity in soil ata available		
	r adverse effects ata available		

SECTION 13. DISPOSAL CONSIDERATIONS

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		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Caspofungin)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Caspofungin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.



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Labels EmS (-	(Caspofungin) : 9 : III : 9 : F-A, S-F : yes				
	port in bulk according		RPOL 73/78 and the IBC Code			
	estic regulation	Supplied.				
ANTT UN nu Prope		: UN 3077 : ENVIRONMEN N.O.S. (Caspofungin)	ITALLY HAZARDOUS SUBSTANCE, SOLID,			
Labels	ng group s d Identification Number	: 9 : III : 9				
Speci	al precautions for use	er				
based Sheet	The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.					
SECTION	15. REGULATORY INF	ORMATION				

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

National List of Carcinogenic Agents for Humans - (LINACH)	:	Not applicable
Brazil. List of chemicals controlled by the Federal Police	:	Not applicable

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

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

SECTION 16. OTHER INFORMATION

Revision Date	:	26.09.2023
Date format	:	dd.mm.yyyy

Further information

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD



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	compile Data S	e the Material Safety heet		eChem Portal sea cy, http://echa.eu	arch results and European Chemicals Agen- ropa.eu/	
Full text of other abbreviations						
-	ACGIH		:	USA. ACGIH Threshold Limit Values (TLV)		
l	BR OE	L	:	Brazil. NR 15 - Unhealthy activities and operations		
-		/ TWA	:	8-hour, time-weighted average		
	ACGIH BR OE	/ STEL	:	Short-term expos Up to 48 hours /w		
			•			

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 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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