

Vers 5.1	ion	Revision Date: 05/24/2019		DS Number: 90244-00006	Date of last issue: 11/07/2018 Date of first issue: 06/27/2017		
SEC	SECTION 1. IDENTIFICATION						
	Product name		:	Krytox™ 283AB			
	Produc	t code	:	D10335787			
	SDS-Id	entcode	:	130000031471			
	Manufa	acturer or supplier's o	deta	nils			
	Compa	ny name of supplier	:	The Chemours Co	ompany FC, LLC		
	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)			
	Telephone		:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)			
	Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302 773-2000) ; Transport emergency: +1-800-424-9300 (outsid the U.S. +1-703-527-3887)			
	Recom	mended use of the c	hen	nical and restriction	ons on use		
	Recom	mended use	:	Lubricant			
	Restric	tions on use	:	tions involving imp internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- blantation in the human body or contact with s or tissues unless agreed to by Seller in a t covering such use. For further information, ur Chemours representative.		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flulike symptoms in humans, especially when smoking contaminated tobacco.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sodium nitrite	7632-00-0	>= 1 - < 5



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Actual concentration is withheld as a trade secret

SECTION 4. FIBST AID MEASURES						
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.				
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.				
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 if symptoms occur. Rinse mouth thoroughly with water.				
Most important symptoms and effects, both acute and delayed	:	Inhalation may provoke the following symptoms: Irritation Lung edema Eye contact may provoke the following symptoms Blurred vision Discomfort Lachrymation Skin contact may provoke the following symptoms: Irritation Redness				
Protection of first-aiders	:	No special precautions are necessary for first aid responders.				
Notes to physician	:	Treat symptomatically and supportively.				

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Not applicable Will not burn
Unsuitable extinguishing media	:	Not applicable Will not burn
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates Carbon oxides Nitrogen oxides (NOx) Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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					o cool unopened containers. ged containers from fire area if it is safe to do
Special protective equipment : for fire-fighters		:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.		
SEC	TION 6	ACCIDENTAL RELE	ASE	E MEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures		:	Follow safe handling advice and personal protective equipment recommendations.	
	Environmental precautions		:	Prevent further lea Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages ed.
		ls and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	No special restrictions on storage with other products.



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	er information on stor- tability	: No decomposition	on if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrofluoric acid	7664-39-3	TWA	3 ppm 2.5 mg/m ³	NIOSH REL
		С	6 ppm 5 mg/m ³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		ST	5 ppm 15 mg/m³	NIOSH REL
		TWA	2 ppm 5 mg/m ³	NIOSH REL
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m ³	OSHA Z-1
		TWA	5,000 ppm 9,000 mg/m ³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m ³	NIOSH REL
		С	200 ppm 229 mg/m ³	NIOSH REL
		TWA	50 ppm 55 mg/m ³	OSHA Z-1

Engineering measures

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

:



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Pers	sonal protective equip	ment					
Res	Respiratory protection		General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.				
Hand	d protection						
F	lemarks	:	Wash hands befo	re breaks and at the end of workday.			
Eye	protection	:	Wear the following Safety glasses	g personal protective equipment:			
Skin	and body protection	:	Skin should be wa	ashed after contact.			
Hygi	ene measures	:	located close to the When using do not	ushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Color	:	white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	7
Melting point/freezing point	:	608 °F / 320 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn



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r : No data availab	le
: 1.89 - 1.93 hPa	
: Not applicable	
: 1.89 - 1.93	
: insoluble	
: Not applicable	
: No data availab	le
: 608 °F / 320 °C	
: Not applicable	
: Not explosive	
: The substance	or mixture is not classified as oxidizing.
: No data availab	le
	 No data availab 1.89 - 1.93 hPa Not applicable 1.89 - 1.93 insoluble insoluble Not applicable No data availab 608 °F / 320 °C Not applicable Not applicable The substance of

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.	
Chemical stability	:	Stable under normal conditions.	
Possibility of hazardous reac- tions	:	Hazardous decomposition products will be formed at elevated temperatures.	
Conditions to avoid	:	None known.	
Incompatible materials	:	None.	
Hazardous decomposition products			



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		ORMATION	L INFO	11. TOXICOLOGICA	ECTION
		exposure	tes of e		
		information.	ailable	e toxicity assified based on ava	
				<u>uct:</u>	Produ
acute oral to	e substance or mixture has no acute o	Assessment: Thicity	:	oral toxicity	Acute
	e: dust/mist	Acute toxicity es Exposure time: Test atmospher Method: Calcula	:	inhalation toxicity	Acute
				oonents:	<u>Comp</u>
				ım nitrite:	Sodiu
	mg/kg	LD50 (Rat): 180	:	oral toxicity	Acute
	4 h	LC50 (Rat): 5.5 Exposure time: Test atmospher	:	inhalation toxicity	Acute
			- : - - -	corrosion/irritation assified based on ava	
		mormation.	allable		
				oonents:	
		Rabbit	:	ım nitrite: es	Sodiu Specie
		OECD Test Gui No skin irritatior	:		Metho Result
			: irritatio	^t us eye damage/eye i	

Not classified based on available information.

Components:

Sodium nitrite:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days
Method	:	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.



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-	iratory sensitizatio assified based on a	n vailable information.	
	cell mutagenicity	vailable information.	
	oonents:		
	um nitrite:		
	toxicity in vitro	: Test Type: Bac Result: positive	terial reverse mutation assay (AMES)
		Test Type: In v Result: positive	itro mammalian cell gene mutation test
Genot	toxicity in vivo	cytogenetic ass Species: Mous	e . ute: Intraperitoneal injection
		Test Type: Mar cytogenetic as Species: Rat Application Rot	nmalian erythrocyte micronucleus test (in viv say) ute: Intraperitoneal injection
		Result: negativ	e
Not cl		vailable information.	e
Not cl <u>Comp</u>	assified based on a conents:		e
Not cl Comp Sodiu Speci Applic	assified based on a <u>conents:</u> um nitrite: es cation Route sure time		e
Not cl Comp Sodiu Speci Applic Expos	assified based on a <u>conents:</u> um nitrite: es cation Route sure time t Group 2A Sodium n	vailable information. : Rat : Ingestion : 2 Years : negative : Probably carcinogenic itrite	
Not cl <u>Comp</u> Sodiu Speci Applic Expos Resul	assified based on a <u>conents:</u> um nitrite: es cation Route sure time t Group 2A Sodium n (nitrite (in A No compo	vailable information. : Rat : Ingestion : 2 Years : negative : Probably carcinogenic itrite gested) under conditions	to humans 7632-00-0 s that result in endogenous nitrosation) sent at levels greater than or equal to 0.1% i
Not cl Comp Sodiu Speci Applic Expos Resul	assified based on a <u>ponents:</u> um nitrite: es cation Route sure time it Group 2A Sodium n (nitrite (in A No compo on OSHA No ingred	vailable information. : Rat : Ingestion : 2 Years : negative : Probably carcinogenic itrite gested) under conditions onent of this product pre 's list of regulated carcin	to humans 7632-00-0 s that result in endogenous nitrosation) sent at levels greater than or equal to 0.1% i logens. ent at levels greater than or equal to 0.1% is
Not cl Comp Sodiu Speci Applic Expos Resul IARC OSHA NTP Repro	lassified based on an <u>conents:</u> um nitrite: es cation Route sure time It Group 2A Sodium n (nitrite (in A No compo on OSHA No ingred identified coductive toxicity	vailable information. : Rat : Ingestion : 2 Years : negative : Probably carcinogenic itrite gested) under conditions onent of this product pre 's list of regulated carcir lient of this product pres as a known or anticipate	to humans 7632-00-0 s that result in endogenous nitrosation) sent at levels greater than or equal to 0.1% logens. ent at levels greater than or equal to 0.1% is
Not cl Comp Sodiu Speci Applic Expos Resul IARC OSHA NTP	assified based on an <u>ponents:</u> um nitrite: es cation Route sure time it Group 2A Sodium n (nitrite (in No compo on OSHA No ingred identified pductive toxicity lassified based on an	vailable information. : Rat : Ingestion : 2 Years : negative : Probably carcinogenic itrite gested) under conditions onent of this product pre 's list of regulated carcir lient of this product pres	to humans 7632-00-0 s that result in endogenous nitrosation) sent at levels greater than or equal to 0.1% i logens. ent at levels greater than or equal to 0.1% is
Not cl Comp Sodiu Speci Applic Expos Resul IARC OSHA NTP Repro Not cl Comp	lassified based on an <u>conents:</u> um nitrite: es cation Route sure time It Group 2A Sodium n (nitrite (in A No compo on OSHA No ingred identified coductive toxicity	vailable information. : Rat : Ingestion : 2 Years : negative : Probably carcinogenic itrite gested) under conditions onent of this product pre 's list of regulated carcir lient of this product pres as a known or anticipate	to humans 7632-00-0 s that result in endogenous nitrosation) sent at levels greater than or equal to 0.1% i logens. ent at levels greater than or equal to 0.1% is



ersion .1	Revision Date: 05/24/2019		0S Number: 90244-00006	Date of last issue: 11/07/2018 Date of first issue: 06/27/2017
			Species: Mouse Application Route Result: negative	e: Ingestion
Effec	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development e: Ingestion
	Γ-single exposure lassified based on availa	able	information.	
STO	C -repeated exposure			
Not c	lassified based on availa	able	information.	
Repe	ated dose toxicity			
Com	ponents:			
Sodiu	um nitrite:			
Speci		:	Rat	
NOA Applio	=∟ cation Route	:	10 mg/kg Ingestion	
	sure time	:	2 y	
Aspii	ration toxicity			
-	lassified based on availa	able	information.	
ECTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecote	oxicity			
<u>Com</u>	ponents:			
Sodiu	um nitrite:			
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 9	hus mykiss (rainbow trout)): 0.54 mg/l 6 h
	ity to daphnia and other	:		nagna (Water flea)): 15.4 mg/l
aquat	tic invertebrates		Exposure time: 44 Method: OECD T	8 h est Guideline 202
	ity to algae/aquatic	:		mus capricornutum (fresh water algae)): >
plants	8		100 mg/l Exposure time: 7/	2 h
				est Guideline 201
			NOEC (Sceneder	smus capricornutum (fresh water algae)): 10
			mg/l	sinae supresinatari (nesh water aigae)). Te



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				Method: OECD T	est Guideline 210
		/ to daphnia and other invertebrates (Chron- ity)	÷	NOEC (Penaeid S Exposure time: 80	Shrimp): 9.86 mg/l) d
	Toxicity	to microorganisms	:	EC50: 281 mg/l Exposure time: 48	3 h
		t ence and degradabil i a available	ity		
		sumulative potential a available			
		y in soil			
	No data	a available			
	Other a	adverse effects			
	No data	a available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	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.

Domestic regulation

49 CFR UN/ID/NA number : UN 3077 Proper shipping name Environmentally hazardous substance, solid, n.o.s. : (Sodium nitrite) Class 9 : Packing group Ш 1 CLASS 9 Labels :



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ERG (Marine Rema	e pollutant	SIZES WHERE	NFORMATION ONLY APPLIES TO PACKAGE E THE HAZARDOUS SUBSTANCE MEETS ABLE QUANTITY.

Special precautions for user

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 INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium nitrite	7632-00-0	100	2020

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazard	S	
SARA 313	: The following components are subject to reportir established by SARA Title III, Section 313:			
		Sodium nitrite	7632-00-0	>= 1 - < 5 %

US State Regulations

Pennsylvania Right To Know

PFPE fluidTrade secretFluoropolymerTrade secretSodium nitrite7632-00-0

California Prop. 65

WARNING: This product can expose you to chemicals including pentadecafluorooctanoic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Sodium nitrite

7632-00-0

Additional regulatory information

Sodium nitrite

7632-00-0

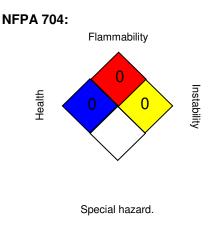
The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740



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SECTION 16. OTHER INFORMATION

Further information



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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For further information contact the local Chemours office or nominated distributors. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-2	:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C OSHA Z-1 / TWA OSHA Z-2 / TWA		Ceiling value not be exceeded at any time. 8-hour time weighted average 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Haz-



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ardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity: SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

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

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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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