



Version 4.1	Revision Date: 10.10.2020		S Number: 32823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017	
SECTIC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION				
Pro	duct name	:	Betamethasone	Solid Formulation	
Ма	nufacturer or supplier's	s deta	ils		
Co	mpany	:	Organon & Co.		
Ado	dress	:	Rua Treze de M Campinas, São	aio, 1161 Paulo, Brazil B-2220	
Tel	ephone	:	551-430-6000		
Em	ergency telephone	:	215-631-6999		
E-n	nail address	:	EHSSTEWARD	@organon.com	
	commended use of the commended use		<b>ical and restricti</b> Pharmaceutical	ons on use	

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification in accordance with ABNT NBR 14725 Standard

Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland)
Long-term (chronic) aquatic hazard	:	Category 1

#### GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H360D May damage the unborn child. H372 Causes damage to organs (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection.



Version	Revision Date:	SDS Number:	Date of last issue: 23.03.2020	
4.1	10.10.2020	1832823-00008	Date of first issue: 13.07.2017	

#### Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.

#### 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 combustible dust concentrations in air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Components			
Chemical name	CAS-No.	Classification	Concentration (% w/w)
Cellulose	9004-34-6		>= 20 -< 30
Betamethasone	378-44-9	Acute toxicity (Inhala- tion), Category 2 Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure (Pituitary gland, Immune sys- tem, muscle, thymus gland, Blood, Adrenal gland), Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 0,3 -< 1

#### **SECTION 4. FIRST AID MEASURES**

General advice	In the case of accident or if you feel unwell, seek medica advice immediately. When symptoms persist or in all cases of doubt seek me 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 of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	plenty
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.	



VersionRevision Date:4.110.10.2020	SDS Number:Date of last issue: 23.03.20201832823-00008Date of first issue: 13.07.2017
Most important symptoms and effects, both acute and delayed	<ul> <li>May damage the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Contact with dust can cause mechanical irritation or drying of the skin.</li> </ul>
Protection of first-aiders	<ul> <li>Dust contact with the eyes can lead to mechanical irritation.</li> <li>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).</li> </ul>
Notes to physician	: Treat symptomatically and supportively.
SECTION 5. FIRE-FIGHTING ME	ASURES
Suitable extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting	<ul> <li>Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.</li> <li>Do not use a solid water stream as it may scatter and spread fire.</li> <li>Exposure to combustion products may be a hazard to health.</li> </ul>
Hazardous combustion prod- ucts	: Carbon oxides Nitrogen oxides (NOx)
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. 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



Version 4.1	Revision Date: 10.10.2020	SDS Number: 1832823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
		released into th Local or nationa disposal of this employed in the determine which Sections 13 and	ese may form an explosive mixture if they are e atmosphere in sufficient concentration. al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Techr	nical measures	causing an expl Provide adequa	v may accumulate and ignite suspended dust losion. ate precautions, such as electrical grounding r inert atmospheres.
Local	Total ventilation		tilation is unavailable, use with local exhaust
	e on safe handling	: Do not get on s Do not breathe Do not swallow. Avoid contact w Wash skin thoro Handle in accor practice, based assessment Keep container Keep container Keep away from Take precautior Do not eat, drin Take care to pre environment.	dust. //ith eyes. bughly after handling. rdance with good industrial hygiene and safet on the results of the workplace exposure tightly closed. generation and accumulation. closed when not in use. n heat and sources of ignition. nary measures against static discharges. k or smoke when using this product. event spills, waste and minimize release to the
	ne measures	flushing system place. When using do Wash contamin The effective op engineering cor appropriate deg	themical is likely during typical use, provide ey as and safety showers close to the working not eat, drink or smoke. hated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.
Condi	itions for safe storage	Store locked up Keep tightly clo	
Mater	ials to avoid		th the following product types: g agents



Version	Revision Date:	SDS Number:	Date of last issue: 23.03.2020
4.1	10.10.2020	1832823-00008	Date of first issue: 13.07.2017

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Cellulose	9004-34-6	TWA	10 mg/m <sup>3</sup>	ACGIH
Betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Further information: Skin			
		Wipe limit	10 µg/100 cm <sup>2</sup>	Internal

Engineering measures :	Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies.
Personal protective equipmen	t
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	Particulates type
Material :	Chemical-resistant gloves
Remarks :	Consider double gloving.
Eye protection :	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.
Skin and body protection :	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	white
Odor	:	No data available

# SAFETY DATA SHEET



Version 4.1	Revision Date: 10.10.2020		S Number: 2823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
Odor	Threshold	:	No data available	9
pН		:	No data available	9
Melti	ng point/freezing point	:	No data available	9
Initia rango	l boiling point and boiling e	:	No data available	
Flash	n point	:	Not applicable	
Evap	oration rate	:	Not applicable	
Flam	mability (solid, gas)	:	May form combu	stible dust concentrations in air.
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper nability limit	:	No data available	)
	er explosion limit / Lower nability limit	:	No data available	9
Vapo	or pressure	:	No data available	9
Rela	tive vapor density	:	Not applicable	
Rela	tive density	:	No data available	9
Dens	sity	:	No data available	2
	oility(ies) /ater solubility	:	No data available	
	tion coefficient: n- nol/water	:	Not applicable	
	ignition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	9
Visco V	osity iscosity, kinematic	:	Not applicable	
Explo	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance of	r mixture is not classified as oxidizing.
	num explosible dust con- ation	:	60 - 125 g/m³	
	deflagration index (Kst)	:	16 - 75 m.b_/s	
Minir	num ignition energy	:	> 10 mJ	
Parti	cle size	:	10 - 220 µm	



Version	Revision Date:	SDS Number:	Date of last issue: 23.03.2020
4.1	10.10.2020	1832823-00008	Date of first issue: 13.07.2017

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form combustible dust concentrations in air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	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.

#### Product:

:	Acute toxicity estimate: > 10 mg/l
	Exposure time: 4 h
	Test atmosphere: dust/mist
	Method: Calculation method
	:

#### **Components:**

Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg
Betamethasone:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
		LD50 (Mouse): > 4.500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0,4 mg/l Exposure time: 4 h

### Skin corrosion/irritation

Not classified based on available information.



Version 4.1	Revision Date: 10.10.2020		Number: 823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
<u>Com</u>	ponents:			
Beta	methasone:			
Spec Resu			abbit Aild skin irritatio	n
	bus eye damage/eye lassified based on av			
<u>Com</u>	ponents:			
Beta	methasone:			
Spec Resu			abbit Io eye irritation	
Resp	piratory or skin sens	itization		
_	sensitization	vailable int	formation.	
-	<b>biratory sensitizatio</b> classified based on av		formation.	
<u>Com</u>	ponents:			
		: 0	Dermal Guinea pig Veak sensitizer	
	n <b>cell mutagenicity</b> classified based on av	vailable int	formation.	
<u>Com</u>	ponents:			
Cellu	llose:			
Geno	otoxicity in vitro		est Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			est Type: In vit Result: negative	ro mammalian cell gene mutation test
Genc	otoxicity in vivo	c S A	est Type: Mam ytogenetic assa pecies: Mouse pplication Rout result: negative	e: Ingestion
Beta	methasone:			
	otoxicity in vitro		est Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			est Type: In vit Result: negative	ro mammalian cell gene mutation test



/ersion .1	Revision Date: 10.10.2020		S Number: 32823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
			Test Type: Chro Result: positive	pmosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: equivoca	te: Oral
	cell mutagenicity - ssment	:	Weight of evide cell mutagen.	nce does not support classification as a germ
Not c	nogenicity lassified based on availa ponents:	able	information.	
Cellu	lose:			
Speci Applic	es cation Route sure time	: : :	Rat Ingestion 72 weeks negative	
Mayo	oductive toxicity damage the unborn child	I.		
<u>Com</u>	oonents:			
Cellu Effect	<b>lose:</b> ts on fertility	:	Test Type: One Species: Rat Application Rou Result: negative	
Effect	ts on fetal development	:	Test Type: Ferti Species: Rat Application Rou Result: negative	•
Betar	nethasone:			
Effect	ts on fetal development	:	Developmental	te: Intramuscular Toxicity: LOAEL: 0,05 mg/kg body weight city., Malformations were observed.
				te: Subcutaneous Toxicity: LOAEL: 0,42 mg/kg body weight
				ations were observed.



rsion	Revision Date: 10.10.2020	SDS Num 1832823-		Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
		Resul	t: Malforma	ations were observed.
Repro sessn	oductive toxicity - As- nent		evidence o Il experime	of adverse effects on development, based on nts.
sтот	-single exposure			
Not cl	assified based on avai	lable informa	ation.	
STOT	-repeated exposure			
	es damage to organs ( gland) through prolong			e system, muscle, thymus gland, Blood, Ad- re.
<u>Comp</u>	oonents:			
Betar	nethasone:			
Targe	t Organs		ary gland, l al gland	mmune system, muscle, thymus gland, Bloo
Asses	ssment	: Cause expos	-	to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Cellu	lose:			
Speci		: Rat		
NOAE			000 mg/kg	
	cation Route sure time	: Inges : 90 Da		
Betar	nethasone:			
Speci	es	: Rabbi	t	
LOAE		: 0.05 %		
	ation Route		contact	
	sure time	: 10 - 3		
Targe	t Organs	: Pituita	ary gland, I	mmune system, muscle
Speci		: Rat		
LOAE		: 0.05 %		
	cation Route		contact	
	sure time t Organs	: 8 Wee	eks Is gland	
raige	lorgans	. urynno	is gianu	
Speci		: Mous		
LOAE		: 0.1 %		
	cation Route		contact	
	sure time t Organs	: 8 Wee	экs is gland	
Speci	es	: Dog		
LOAE		: 0,05 r	ng/kg	
	ation Route	: Oral	5 0	
Expos	sure time	: 28 d		
Targe	t Organs	: Blood	, thymus g	and, Adrenal gland



/ersion I.1	Revision Date: 10.10.2020		0S Number: 32823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
-	ration toxicity classified based on availa	ble	information.	
Expe	erience with human exp	osu	ire	
<u>Com</u>	ponents:			
	methasone:			
Inhal Skin	ation contact	:	Target Organs: A Symptoms: Red	Adrenal gland ness, pruritis, Irritation
ECTION	12. ECOLOGICAL INFO	DRN		
Ecot	oxicity			
<u>Com</u>	ponents:			
Cellu	ılose:			
Toxic	sity to fish	:	Exposure time: 4	atipes (Japanese medaka)): > 100 mg/l 18 h I on data from similar materials
Beta	methasone:			
	city to daphnia and other tic invertebrates	:	EC50 (American Exposure time: 9	
Toxic plant	city to algae/aquatic s	:	mg/l Exposure time: 7 Method: OECD	rchneriella subcapitata (green algae)): > 34 72 h Test Guideline 201 kicity at the limit of solubility.
			mg/l Exposure time: 7 Method: OECD	xirchneriella subcapitata (green algae)): 34 72 h Test Guideline 201 xicity at the limit of solubility.
Toxic icity)	sity to fish (Chronic tox-	:	Exposure time: 3	ales promelas (fathead minnow)): 0,052 mg/ 32 d Test Guideline 210
			Exposure time: 2	latipes (Japanese medaka)): 0,07 μg/l 219 d Test Guideline 229
	city to daphnia and other tic invertebrates (Chron- cicity)	:	Exposure time: 2	magna (Water flea)): 8 mg/l 21 d Test Guideline 211
M-Fa toxici	actor (Chronic aquatic ity)	:	1.000	



/ersion I.1	Revision Date: 10.10.2020	SDS Number: 1832823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
Persi	stence and degrada	bility	
Com	ponents:		
<b>Cellu</b> Biode	<b>lose:</b> egradability	: Result: Readil	y biodegradable.
Bioad	ccumulative potentia	ıl	
Com	ponents:		
Partit	<b>methasone:</b> ion coefficient: n- ol/water	: log Pow: 2,11	
	<b>lity in soil</b> ata available		
••	r adverse effects ata available		

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



Version 4.1	Revision Date: 10.10.2020		DS Number: 32823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017
UN nu Prope	umber r shipping name	:	UN 3077 ENVIRONMENT N.O.S. (Betamethasone)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Class		:	9	
Packii	ng group	:		
Labels	S	:	9	
EmS	Code	:	F-A, S-F	
Marin	e pollutant	:	yes	

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

Not applicable for product as supplied.

#### **Domestic regulation**

<b>ANTT</b> UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (betamethasone)
Class	:	9
Packing group	:	III
Labels	:	9
Hazard Identification Number	:	90

#### 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**

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

National List of Carcinogenie (LINACH)	c Agents for Humans -	:	Not applicable		
Brazil. List of chemicals con Police	trolled by the Federal	:	Not applicable		
International Regulations					
The ingredients of this product are reported in the following inventories:					
AICS	: not determined				

# DSL : not determined IECSC : not determined

#### **SECTION 16. OTHER INFORMATION**

#### Further information



Vers 4.1	ion Revision Date: 10.10.2020	SDS Number: 1832823-00008	Date of last issue: 23.03.2020 Date of first issue: 13.07.2017		
	Sources of key data used to compile the Material Safety Data Sheet	: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
	Full text of other abbreviat	ions			
	ACGIH	: USA. ACGIH T	hreshold Limit Values (TLV)		
	ACGIH / TWA	: 8-hour, time-we	eighted average		
	Land of Brazil; ASTM - Ame Carcinogen, Mutagen or Re Standardisation; DSL - Dom x% response; ELx - Loadin ENCS - Existing and New C x% growth rate response; El tem; GLP - Good Laboratory - International Air Transpor Equipment of Ships carrying centration; ICAO - Internatio cal Substances in China; IM Maritime Organization; ISHL ganisation for Standardizatio centration to 50 % of a test Lethal Dose); MARPOL - In n.o.s Not Otherwise Speci Concentration; NO(A)EL - N Loading Rate; NOM - Officia Zealand Inventory of Chemic ment; OPPTS - Office of Che lative and Toxic substance; I es; (Q)SAR - (Quantitative 1907/2006 of the European I Authorisation and Restriction ture; SDS - Safety Data She tion of Dangerous Goods; TS tions; UNRTDG - United Nat	als; ANTT - National Agency for Transport by Testing of Materials; bw - Body weight; CMR - ;; DIN - Standard of the German Institute for c (Canada); ECx - Concentration associated with th x% response; EmS - Emergency Schedule; (Japan); ErCx - Concentration associated with sponse Guide; GHS - Globally Harmonized Sys- ernational Agency for Research on Cancer; IATA - International Code for the Construction and als in Bulk; IC50 - Half maximal inhibitory con- anization; IECSC - Inventory of Existing Chemi- Maritime Dangerous Goods; IMO - International and Health Law (Japan); ISO - International Or- isting Chemicals Inventory; LC50 - Lethal Con- ethal Dose to 50% of a test population (Median ion for the Prevention of Pollution from Ships; Jorm; NO(A)EC - No Observed (Adverse) Effect e) Effect Level; NOELR - No Observable Effect P - National Toxicology Program; NZIoC - New zation for Economic Co-operation and Develop- llution Prevention; PBT - Persistent, Bioaccumu- nventory of Chemicals and Chemical Substanc- Relationship; REACH - Regulation (EC) No Council concerning the Registration, Evaluation, DT - Self-Accelerating Decomposition Tempera- temical Substance Inventory; TDG - Transporta- ces Control Act (United States); UN - United Na- ons on the Transport of Dangerous Goods; vPvB HMIS - Workplace Hazardous Materials Infor-			

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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