according to GB/T 16483 and GB/T 17519



# **Enalapril Formulation**

Vers 2.7		Revision Date: 2020/10/10		S Number: 739-00011	Date of last issue: 2020/03/23 Date of first issue: 2016/06/07
1. P	1. PRODUCT AND COMPANY IDENTIFICATION				
	Product name		:	Enalapril Formula	ation
	Manufa	cturer or supplier's d	letai	ls	
	Company		:	Organon & Co.	
	Address	3	:	30 Hudson Stree Jersey City, New	t, 33nd floor Jersey, U.S.A 07302
	Telepho	one	:	551-430-6000	
	Emerge	ncy telephone number	:	215-631-6999	
	E-mail a	address	:	EHSSTEWARD@	⊉organon.com
	Recom	mended use of the ch	nem	ical and restrictio	ons on use
	Recom	mended use	:	Pharmaceutical	

### 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

		1
Appearance Colour Odour	: : :	powder white No data available
May damage the unborn child. posure.	Ма	y cause damage to organs through prolonged or repeated ex-
GHS Classification		
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 2
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360D May damage the unborn child. H373 May cause damage to organs through prolonged or re- peated exposure.
Precautionary statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read

according to GB/T 16483 and GB/T 17519



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and understood.

P260 Do not breathe dust.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

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

#### Storage:

P405 Store locked up.

#### Disposal:

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

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

#### Environmental hazards

Not classified based on available information.

#### Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Starch	9005-25-8	>= 10 -< 20
(S)-1-[N-[1-(Ethoxycarbonyl)-3-phenylpropyl]-L- alanyl]-L-proline maleate	76095-16-4	>= 1 -< 10

#### 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled In case of skin contact	<ul> <li>If inhaled, remove to fresh air. Get medical attention.</li> <li>In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention.</li> </ul>

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In cas	se of eye contact	0,	before reuse. ean shoes before reuse. e well with water.			
in cas	se of eye contact		tention if irritation develops and persists.			
lf swa	allowed	: If swallowed, D	O NOT induce vomiting.			
		Get medical at				
Most	important symptoms		noroughly with water. he unborn child.			
	ffects, both acute and		mage to organs through prolonged or repeated			
delay		exposure.				
			ust can cause mechanical irritation or drying of			
		the skin.	vith the eyes can lead to mechanical irritation.			
Prote	ction of first-aiders		nders should pay attention to self-protection,			
		and use the re	commended personal protective equipment			
Natas	te physician		ntial for exposure exists (see section 8).			
Notes	s to physician	: Treat symptomatically and supportively.				
5. FIREFIC	GHTING MEASURES					
Suital	ble extinguishing media	: Water spray				
		Alcohol-resista				
		Carbon dioxide	e (CO2)			
Unsu	itable extinguishing	Dry chemical : None known.				
media	• •					
	fic hazards during fire-		ng dust; fine dust dispersed in air in sufficient			
fightir	ng		, and in the presence of an ignition source is a explosion hazard.			
			ombustion products may be a hazard to health.			
	rdous combustion prod-	: Carbon oxides				
ucts		Metal oxides				
Speci	fic extinguishing meth-	: Use extinguish	ing measures that are appropriate to local cir-			
ods	5 5	cumstances ar	nd the surrounding environment.			
			ay to cool unopened containers.			
			maged containers from fire area if it is safe to d			
		so. Evacuate area				
Speci	al protective equipment		fire, wear self-contained breathing apparatus.			
	efighters		protective equipment.			

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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	ds and materials for ment and cleaning up	tainer for disposa Avoid dispersal of with compressed Dust deposits shifted es, as these may leased into the at Local or national posal of this mate employed in the of mine which regul Sections 13 and	f dust in the air (i.e., clearing dust surfaces

### 7. HANDLING AND STORAGE

Handling		
Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	
Advice on safe handling	:	
Avoidance of contact	:	Oxidizing agents
Storage		
Conditions for safe storage Materials to avoid	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations. Do not store with the following product types:
	-	Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Starch	9005-25-8	TWA	10 mg/m3	ACGIH
(S)-1-[N-[1-(Ethoxycarbonyl)-3- phenylpropyl]-L-alanyl]-L- proline maleate	76095-16-4	TWA	50 μg/m3 (OEB 3)	Internal
		Wipe limit	500 µg/100 cm <sup>2</sup>	Internal

Engineering measures	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Personal protective equipmer	t
Respiratory protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Eye/face protection	Particulates type 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, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hand protection	-
Material	Chemical-resistant gloves
Remarks Hygiene measures	Consider double gloving. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the

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			use of administrat	tive controls.	
. PHYSIC	AL AND CHEMICAL P	ROP	ERTIES		
Appea	arance	:	powder		
Colou	r	:	white		
Odour	Odour		No data available		
Odour	Odour Threshold		No data available	9	
pН		:	No data available	9	
Meltin	Melting point/freezing point		No data available	9	
Initial range	boiling point and boiling	:	No data available	9	
Flash	point	:	Not applicable		
Evapo	pration rate	:	Not applicable		
Flamn	nability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- ans.	
Flamn	nability (liquids)	:	No data available	9	
	explosion limit / Upper ability limit	:	No data available	e	
	explosion limit / Lower ability limit	:	No data available	e	
Vapou	ır pressure	:	Not applicable		
Relativ	ve vapour density	:	Not applicable		
Relativ	ve density	:	No data available	9	
Densit	ty	:	No data available	9	
	ility(ies) ater solubility	:	No data available	9	
	on coefficient: n-	:	Not applicable		
	ol/water gnition temperature	:	No data available	9	
Decon	nposition temperature	:	No data available	9	
	Viscosity Viscosity, kinematic		Not applicable		

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I	Explosi	ve properties	:	Not explosive	
Oxidizing properties		:	: The substance or mixture is not classified as oxidizing		
I	Particle	size	:	No data available	
). S	TABIL	ITY AND REACTIVITY	,		
( 		ity al stability lity of hazardous reac-	:	Stable under nor May form explosi dling or other me	ve dust-air mixture during processing, han-
		ons to avoid atible materials	:	Heat, flames and Avoid dust forma Oxidizing agents	
I		ous decomposition	:		composition products are known.
I. T	OXICO	LOGICAL INFORMAT		l	
I	Exposu	ire routes	:	Inhalation Skin contact Ingestion Eye contact	
		t <b>oxicity</b> ssified based on availa	ble i	nformation.	
ļ	Produc	st:			
	Acute oral toxicity			• • • • • •	
,	Acute C		:	Method: Calculati	mate: > 5,000 mg/kg on method
			:		
9		onents:	:		
<u>(</u>	<u>Compo</u> Starch:	onents:	:		on method
<u>(</u>	Compo Starch: Acute c	onents:		Method: Calculati	on method
<u>(</u> ; ; ;	Compo Starch: Acute c Acute c (S)-1-[N	oral toxicity onents: oral toxicity lermal toxicity <b>\-[1-(Ethoxycarbonyl</b> )	: ) <b>-3-</b> p	Method: Calculati LD50 (Rat): > 5,0 LD50 (Rabbit): > 2 phenylpropyl]-L-a	on method 00 mg/kg 2,000 mg/kg   <b>anyl]-L-proline maleate:</b>
	Compo Starch: Acute c Acute c (S)-1-[N	oral toxicity onents: : oral toxicity dermal toxicity	:	Method: Calculati LD50 (Rat): > 5,0 LD50 (Rabbit): > 2	on method 00 mg/kg 2,000 mg/kg   <b>anyl]-L-proline maleate:</b>
	Compo Starch: Acute c Acute c (S)-1-[N	oral toxicity onents: oral toxicity lermal toxicity <b>\-[1-(Ethoxycarbonyl</b> )	: ) <b>-3-</b> p	Method: Calculati LD50 (Rat): > 5,0 LD50 (Rabbit): > 2 phenylpropyl]-L-a	on method 00 mg/kg 2,000 mg/kg anyl]-L-proline maleate: - 3,500 mg/kg
	Compo Starch: Acute c Acute c (S)-1-[N	oral toxicity onents: oral toxicity lermal toxicity <b>\-[1-(Ethoxycarbonyl</b> )	: ) <b>-3-</b> p	Method: Calculati LD50 (Rat): > 5,00 LD50 (Rabbit): > 2 <b>bhenylpropyl]-L-a</b> LD50 (Rat): 2,000 LDLo (Rat): 1,775	on method 00 mg/kg 2,000 mg/kg anyl]-L-proline maleate: - 3,500 mg/kg
<u>(</u> ; ; ;	Compo Starch: Acute c Acute c (S)-1-[N	oral toxicity onents: oral toxicity lermal toxicity <b>\-[1-(Ethoxycarbonyl</b> )	: ) <b>-3-</b> p	Method: Calculati LD50 (Rat): > 5,00 LD50 (Rabbit): > 2 <b>bhenylpropyl]-L-a</b> LD50 (Rat): 2,000 LDLo (Rat): 1,775	on method 00 mg/kg 2,000 mg/kg a <b>nyl]-L-proline maleate:</b> - 3,500 mg/kg mg/kg 000 - 3,500 mg/kg

according to GB/T 16483 and GB/T 17519



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			750 mallia		
		LD50 (Mouse): Application Ro	ute: Intravenous		
		LD50 (Dog): > 100 mg/kg			
		LDLo (Dog): 20	00 mg/kg		
Skin	corrosion/irritation				
Not cl	lassified based on ava	ailable information.			
Comp	ponents:				
• •			alanyl]-L-proline maleate:		
Speci		: Rabbit			
Resul	lt	: No skin irritatio	n		
Serio	us eye damage/eye	irritation			
	lassified based on ava				
Com	oonents:				
Starc	h:				
Speci	es	: Rabbit			
Resul	lt	: No eye irritatio	n		
(S)-1-	[N-[1-(Ethoxycarbo	vi)-3-phenvipropvi]-i	alanyl]-L-proline maleate:		
Speci		: Rabbit			
Resul		: Severe irritatio	n		
Resp	iratory or skin sensi	tisation			
Skin	sensitisation				
Not cl	lassified based on ava	ailable information.			
Resp	iratory sensitisation	I Contraction of the second			
Not cl	lassified based on ava	ailable information.			
<u>Com</u>	oonents:				
Starc	h:				
Test 7		: Maximisation T	est		
	sure routes	: Skin contact			
Speci Resul		: Guinea pig			
R 1451 II	IL	: negative			

## (S)-1-[N-[1-(Ethoxycarbonyl)-3-phenylpropyl]-L-alanyl]-L-proline maleate:

ation Test
tact
big
in sensitizer.

according to GB/T 16483 and GB/T 17519



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Not	m cell mutagenicity classified based on avail nponents:	able	information.	
<b>Star</b> Gen	ch: otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
	1-[N-[1-(Ethoxycarbony otoxicity in vitro	<b>I)-3-</b> :		lanyl]-L-proline maleate: rial reverse mutation assay (AMES)
			Test Type: In vitro malian cells Result: negative	o sister chromatid exchange assay in mam-
			Test Type: Alkalir Result: negative	ne elution assay
Gen	otoxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
				enicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion

### Carcinogenicity

Not classified based on available information.

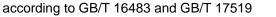
### **Components:**

#### (S)-1-[N-[1-(Ethoxycarbonyl)-3-phenylpropyl]-L-alanyl]-L-proline maleate:

Species Application Route Exposure time NOAEL	: Rat : Ingestion : 106 weeks : 90 mg/kg body weight
Result	: negative
Species Application Route Exposure time NOAEL Result	<ul> <li>Mouse</li> <li>Ingestion</li> <li>94 weeks</li> <li>90 - 180 mg/kg body weight</li> <li>negative</li> </ul>

#### Reproductive toxicity

May damage the unborn child.





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Com	ponents:		
• •	- <b>[N-[1-(Ethoxycarbony</b> ts on fertility	: Test Type: F Species: Ra Application Fertility: NO	<b>I]-L-alanyI]-L-proline maleate:</b> <sup>F</sup> ertility t, male and female Route: Ingestion AEL: 90 mg/kg body weight effects on fertility
Effec ment	ts on foetal develop-	Developmer	t Route: Ingestion htal Toxicity: NOAEL: 200 mg/kg body weight effects on foetal development
			Route: Ingestion ntal Toxicity: LOAEL: 1,200 mg/kg body weight
		Developmer	Route: Ingestion ntal Toxicity: LOAEL: 30 mg/kg body weight cts on postnatal development, Effects on newborn,
		General Tox Developmer	bbit Route: Ingestion kicity Maternal: LOAEL: 1 mg/kg body weight htal Toxicity: LOAEL: 1 mg/kg body weight toxicity, Maternal toxicity observed., No teratogen-
Repr sessi	oductive toxicity - As- nent		dence of adverse effects on development from emiological studies.

### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

: Rat

### Components:

## (S)-1-[N-[1-(Ethoxycarbonyl)-3-phenylpropyl]-L-alanyl]-L-proline maleate:

Target Organs	:	Kidney, Cardio-vascular system
Assessment		Causes damage to organs through prolonged or repeated
		exposure.

### Repeated dose toxicity

#### **Components:**

Starch: Species

according to GB/T 16483 and GB/T 17519



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NOAEL Application Route Exposure time Method		: >= 2,000 mg/l : Skin contact : 28 Days : OECD Test G	
(S)-1-	[N-[1-(Ethoxycarbon	yl)-3-phenylpropyl]·	-L-alanyl]-L-proline maleate:
Species NOAEL LOAEL Application Route Exposure time Target Organs Species NOAEL Application Route Exposure time Remarks		: Dog : 15 mg/kg : 30 mg/kg : Ingestion : 1 yr : Kidney : Rat : 90 mg/kg : Oral : 1 yr : No significant	adverse effects were reported
	EL cation Route sure time	: Monkey : 30 mg/kg : Oral : 1 Months : No significant	adverse effects were reported

### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### **Components:**

#### (S)-1-[N-[1-(Ethoxycarbonyl)-3-phenylpropyl]-L-alanyl]-L-proline maleate:

Ingestion	<ul> <li>Target Organs: Cardio-vascular system</li> <li>Symptoms: hypotension, Cough, Dizziness, Headache,</li> <li>Blurred vision, Fatigue, Oedema, Nausea, hyperkalemia, faint- ing, Weakness, skin rash</li> <li>Remarks: May cause harm to the unborn child.</li> </ul>

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity

Components:

#### (S)-1-[N-[1-(Ethoxycarbonyl)-3-phenylpropyl]-L-alanyl]-L-proline maleate:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 346 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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Tox	icity to microorganisms	Exposure tim Test Type: R	al microorganism): > 1,000 mg/l e: 3 h espiration inhibition D Test Guideline 209
	<b>sistence and degradabi</b> data available	lity	
	accumulative potential data available		
	<b>bility in soil</b> data available		
• • • •	<b>er adverse effects</b> data available		
13. DISF	OSAL CONSIDERATIO	NS	
Was	posal methods ste from residues taminated packaging	: Empty contai dling site for	accordance with local regulations. ners should be taken to an approved waste han- recycling or disposal. se specified: Dispose of as unused product.
14. TRA	NSPORT INFORMATION	1	
Inte	rnational Regulations		
Not	RTDG regulated as a dangerou: A-DGR	s good	

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.

### National Regulations

**GB 6944/12268** Not regulated as a dangerous good

Special precautions for user Not applicable

#### **15. REGULATORY INFORMATION**

## National regulatory information

Law on the Prevention and Control of Occupational Diseases





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

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

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

Further information Sources of key data used to compile the 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/
Date format	:	yyyy/mm/dd
Full text of other abbreviations		USA. ACGIH Threshold Limit Values (TLV)

### ACGIH / TWA : 8-hour, time-weighted average

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

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#### Disclaimer

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.

CN / EN