

Date of last issue: 13.09.2019

## **Ganirelix Formulation**

Revision Date:

SDS Number:

Version

.3	16.10.2020	22215-00016	Date of first issue: 15.10.2014
ECTION	1. PRODUCT AND CO	MPANY IDENTIFIC	ATION
Produ	ct name	: Ganirelix Form	ulation
	facturer or supplier's	details	
	any name of supplier	: Organon & Co	
Addre			e Septiembre No. 301
		Xaltocan - Xoc	himilco Mexico 16090
Telepł		: 52 55 5728444	14
	gency telephone I address	: 215-631-6999 : EHSSTEWAR	D@organon.com
Recor	nmended use of the c	hemical and restri	ctions on use
Recon	nmended use	: Pharmaceutica	al
ECTION	2. HAZARDS IDENTIFI		
	Classification		
Repro	ductive toxicity	: Category 1B	
	ic target organ toxicity ated exposure	: Category 1 (Bo	one marrow, Liver, Adrenal gland, spleen, Ovar
GHS I	abel elements		
Hazar	d pictograms		
Signal	Word	: Danger	
Hazar	d Statements	: H360Fd May c unborn child.	lamage fertility. Suspected of damaging the
		H372 Causes	damage to organs (Bone marrow, Liver, Adrena Ovary) through prolonged or repeated exposure
Preca	utionary Statements	Prevention:	
		P201 Obtain s	pecial instructions before use.
			andle until all safety precautions have been rea
		and understoo	
			reathe mist or vapors.
			in thoroughly after handling. at, drink or smoke when using this product.
			otective gloves/ protective clothing/ eye protective
		Response:	
			F exposed or concerned: Get medical advice/
		attention.	
		attention. Storage:	



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		<b>Disposal:</b> P501 Dispo posal plant.	se of contents/ contai	iner to an approved waste dis-	
•	r <b>hazards</b> known.				
ECTION	3. COMPOSITION/INF	ORMATION ON I	NGREDIENTS		
Subst	tance / Mixture	: Mixture			
Comp	ponents				
Chem	nical name		CAS-No.	Concentration (% w/w)	
Ganir	elix		124904-93-4	>= 0.01 -< 0.1	
		advice.			
lf inha	aled		emove to fresh air.		
		Get medical	attention.		
	se of skin contact	of water. Remove cor Get medical Wash clothi Thoroughly	ntaminated clothing a attention. ng before reuse. clean shoes before re	euse.	
In cas	se of eye contact		with water as a preca attention if irritation of	ution. develops and persists.	
lf swa	allowed	Get medical	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> </ul>		
	important symptoms iffects, both acute and ed	: May damag child.	e fertility. Suspected	of damaging the unborn gh prolonged or repeated	
	ction of first-aiders	: First Aid res and use the when the po	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).		
NI. (	s to physician	<ul> <li>Treat sympt</li> </ul>	omatically and suppo	ortively	

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire	:	Exposure to combustion products may be a hazard to health.



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I	fighting Hazard ucts		:	No hazardous cor	nbustion products are known	
	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.		
SEC	TION 6	. ACCIDENTAL RELE	AS	E MEASURES		
t	Personal precautions, protec- tive equipment and emer- gency procedures		:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
	Environmental precautions		:	Prevent spreading oil barriers). Retain and dispos	he environment. akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water.	

Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items
		employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures ur CONTROLS/PERSONAL PRO	
Local/Total ventilation	If sufficient ventilation is unava ventilation.	ilable, use with local exhaust
Advice on safe handling	Do not get on skin or clothing. Do not breathe mist or vapors Do not swallow. Avoid contact with eyes. Wash skin thoroughly after ha Handle in accordance with goo practice, based on the results	ndling. od industrial hygiene and safety



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		assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to th environment.				
Hygie	ne measures	flushing syste place. When using d Wash contam The effective engineering c appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working lo not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.			
Condi	itions for safe storage	Store locked u Keep tightly c				
Mater	ials to avoid		with the following product types: ng agents			

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ganirelix	124904-93-4	TWA	0.2 μg/m3 (OEB 5)	Internal
		Wipe limit	2 µg/100 cm <sup>2</sup>	Internal

Engineering measures :	Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted. Totally enclosed processes and materials transport systems are required. Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.
Personal protective equipment	
Respiratory protection :	No personal respiratory protective equipment normally required.
Hand protection	-

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Material		: Chemical-res	istant gloves	
Remarks Eye protection		If the work er mists or aero Wear a faces	ble gloving. glasses with side shields or goggles. wironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a lirect contact to the face with dusts, mists, or	
Skin and body protection		: Work uniform Additional bo task being pe disposable su Use appropria	<ul> <li>Work uniform or laboratory coat.</li> <li>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.</li> <li>Use appropriate degowning techniques to remove potentially contaminated clothing.</li> </ul>	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	23 hPa (20 °C)
Relative vapor density	:	No data available
Relative density	:	1
Solubility(ies) Water solubility	:	completely miscible



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octa Auto	tion coefficient: n- nol/water ignition temperature omposition temperature	: : :	No data available No data available No data available	2
	osity iscosity, kinematic osive properties	:	No data available Not explosive	9
Mole	izing properties cular weight cle size	: : :	The substance o No data available No data available	-

#### SECTION 10. STABILITY AND REACTIVITY

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

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

#### **Components:**

# **Ganirelix:** Acute toxicity (other routes of : LD50 (Rat): 40 mg/kg administration)

#### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.





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<u>Com</u>	oonents:		
Ganir	elix:		
Speci		: Rabbit	
Resul		: Mild eye irritatio	n
Metho	od	: Draize Test	
Respi	ratory or skin sens	itization	
-	sensitization assified based on av	ailable information.	
	ratory sensitizatior		
	assified based on av		
Comp	oonents:		
Ganir	elix:		
Test 7		: Maximization Te	est
Speci	53	: Guinea pig	
Speci Resul		: negative	
Resul Germ Not cl		: negative	
Resul Germ Not cl	t <b>cell mutagenicity</b> assified based on av ponents:	: negative	
Resul Germ Not cl <u>Comp</u> Ganir	t <b>cell mutagenicity</b> assified based on av ponents:	: negative ailable information. : Test Type: reve	rse mutation assay
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	: negative ailable information. : Test Type: reve Test system: Sa	almonella typhimurium
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	: negative ailable information. : Test Type: reve	almonella typhimurium
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	: negative ailable information. : Test Type: reve Test system: Sa Result: negative	almonella typhimurium
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	: negative ailable information. : Test Type: reve Test system: Sa Result: negative Test Type: reve Test system: Es	almonella typhimurium s rse mutation assay scherichia coli
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	: negative ailable information. : Test Type: reve Test system: Sa Result: negative Test Type: reve	almonella typhimurium s rse mutation assay scherichia coli
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	<ul> <li>negative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative Test Type: reve Test system: Es Result: negative</li> </ul>	almonella typhimurium rse mutation assay scherichia coli
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	<ul> <li>negative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative Test Type: reve Test system: Es Result: negative Test system: Es Result: negative</li> </ul>	almonella typhimurium rse mutation assay scherichia coli
Resul Germ Not cl <u>Comp</u> Ganir	t cell mutagenicity assified based on av ponents: elix:	<ul> <li>negative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative Test Type: reve Test system: Es Result: negative Test system: Es Result: negative</li> </ul>	almonella typhimurium e rse mutation assay scherichia coli e tro test hinese hamster ovary cells
Resul Germ Not cl <u>Comp</u> Ganir Genot	t cell mutagenicity assified based on av ponents: elix:	<ul> <li>negative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative</li> <li>Test Type: reve Test system: Es Result: negative</li> <li>Test Type: in vit Test system: Ch Result: negative</li> </ul>	almonella typhimurium e rse mutation assay scherichia coli e tro test ninese hamster ovary cells
Resul Germ Not cl <u>Comp</u> Ganir Genot	t cell mutagenicity assified based on av <u>ponents:</u> elix: coxicity in vitro	<ul> <li>inegative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative</li> <li>Test Type: reve Test system: Es Result: negative</li> <li>Test Type: in vit Test system: Ch Result: negative</li> <li>Test Type: In vit Species: Mouse</li> </ul>	almonella typhimurium rse mutation assay scherichia coli tro test ninese hamster ovary cells vo micronucleus test
Resul Germ Not cl <u>Comp</u> Ganir Genot	t cell mutagenicity assified based on av <u>ponents:</u> elix: coxicity in vitro	<ul> <li>negative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative</li> <li>Test Type: reve Test system: Es Result: negative</li> <li>Test Type: in vit Test system: Ch Result: negative</li> <li>Test Type: In vit Species: Mouse Application Rou</li> </ul>	almonella typhimurium rse mutation assay scherichia coli tro test hinese hamster ovary cells vo micronucleus test te: Intravenous
Resul Germ Not cl <u>Comp</u> Ganir Genot	t cell mutagenicity assified based on av <u>ponents:</u> elix: coxicity in vitro	<ul> <li>inegative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative</li> <li>Test Type: reve Test system: Es Result: negative</li> <li>Test Type: in vit Test system: Ch Result: negative</li> <li>Test Type: In vit Species: Mouse</li> </ul>	almonella typhimurium rse mutation assay scherichia coli tro test hinese hamster ovary cells vo micronucleus test te: Intravenous
Resul Germ Not cl Comp Ganir Genot	t cell mutagenicity assified based on av <u>ponents:</u> elix: coxicity in vitro	<ul> <li>negative</li> <li>ailable information.</li> <li>Test Type: reve Test system: Sa Result: negative</li> <li>Test Type: reve Test system: Es Result: negative</li> <li>Test Type: in vit Test system: Ch Result: negative</li> <li>Test Type: In vit Species: Mouse Application Rou Result: negative</li> </ul>	almonella typhimurium rse mutation assay scherichia coli tro test hinese hamster ovary cells vo micronucleus test te: Intravenous

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

May damage fertility. Suspected of damaging the unborn child.

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<u>Co</u>	mponents:			
Gai	nirelix:			
Effe	ects on fertility	:	Species: Rat Application Route Duration of Single Fertility: LOAEL: Result: Effects or Test Type: Fertilit Species: Rat, fen Application Route	e Treatment: 13 Weeks 0.1 µg/kg n fertility. ty/early embryonic development nale e: Subcutaneous e Treatment: 8 Weeks
			Result: No effects Test Type: Fertili Species: Monkey Application Route	s on mating performance., Effects on fertility. ty e: Subcutaneous 0.02 mg/kg body weight
Effe	ects on fetal development	:	Species: Rat, fen Application Route Embryo-fetal toxi Result: Embryo-fetal Test Type: Embry Species: Rabbit, Application Route	e: Subcutaneous city.: LOAEL: 10 μg/kg etal toxicity. yo-fetal development female e: Subcutaneous
	productive toxicity - As- sment	:	Result: Embryo-f Clear evidence o fertility, based on	city.: LOAEL: 30 μg/kg etal toxicity. f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal

#### STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Causes damage to organs (Bone marrow, Liver, Adrenal gland, spleen, Ovary) through prolonged or repeated exposure.

#### Components:

#### Ganirelix:

Routes of exposure	:	Ingestion
Target Organs	:	Bone marrow, Liver, Adrenal gland, spleen, Ovary
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.





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Repe	ated dose toxicity		
Com	oonents:		
Ganir	relix:		
Expos	ΞL	: Rat : 0.02 mg/kg : 2 mg/kg : Subcutaneous : 6 Months : Bone marrow	
Expos		: Mouse, female : 0.3 mg/kg : Subcutaneous : 3 Months : Liver, Adrenal	gland, spleen, Ovary
Expos		: Mouse, male : 3 mg/kg : Subcutaneous : 3 Months : Liver, Adrenal	gland, spleen
	EL cation Route sure time	: Monkey : 2.5 mg/kg : Subcutaneous : 6 Months : No significant a	adverse effects were reported

Not classified based on available information.

### Experience with human exposure

#### Components:

#### Ganirelix:

Inhalation

: Symptoms: The most common side effects are:, vaginal bleeding, Headache, Abdominal pain, Nausea, ectopic pregnancy, miscarriage

### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

**Components:** 

Ganirelix:

#### Ecotoxicology Assessment

Acute aquatic toxicity	:	No data available
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Chronic aquatic toxicity	: No data available
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	stence and degradab	ility	
	ata available		
	ccumulative potential ata available		
	<b>lity in soil</b> ata available		
	r adverse effects ata available		
ECTION	13. DISPOSAL CONS	IDERATIONS	
	osal methods		
	e from residues aminated packaging	: Empty conta handling site	accordance with local regulations. iners should be taken to an approved waste for recycling or disposal. se specified: Dispose of as unused product.
ECTION	14. TRANSPORT INF	ORMATION	
Intor	national Regulations		
	-		
UNR Not re	egulated as a dangerou	s good	
	-DGR egulated as a dangerou	s good	
INOT LE			
IMDG	<b>i-Code</b> egulated as a dangerou	s good	
IMDG Not re Trans	egulated as a dangerou sport in bulk accordin	g to Annex II of M	ARPOL 73/78 and the IBC Code
IMDG Not re Trans Not a	egulated as a dangerou	g to Annex II of M	ARPOL 73/78 and the IBC Code
IMDG Not re Trans Not a Dome	egulated as a dangerou sport in bulk accordin pplicable for product as	g to Annex II of M s supplied.	ARPOL 73/78 and the IBC Code
IMDG Not re Not a Dome NOM Not re Spec	egulated as a dangerou sport in bulk accordin pplicable for product as estic regulation -002-SCT	<b>g to Annex II of M</b> s supplied. s good	ARPOL 73/78 and the IBC Code
IMDG Not re Not a Dome NOM Not re Spec Not a	egulated as a dangerou sport in bulk accordin pplicable for product as estic regulation -002-SCT egulated as a dangerou ial precautions for us pplicable	g to Annex II of M s supplied. Is good er	ARPOL 73/78 and the IBC Code
IMDG Not re Not a Dome NOM Not re Spec Not a	egulated as a dangerou sport in bulk accordin pplicable for product as estic regulation -002-SCT egulated as a dangerou ial precautions for us	g to Annex II of M s supplied. Is good er	ARPOL 73/78 and the IBC Code
IMDG Not re Not a Dome NOM Not re Spec Not a	egulated as a dangerou sport in bulk accordin pplicable for product as estic regulation -002-SCT egulated as a dangerou ial precautions for us pplicable 15. REGULATORY IN y, health and environ	g to Annex II of M s supplied. Is good er FORMATION	ARPOL 73/78 and the IBC Code
IMDG Not re Trans Not a Dome NOM Not re Spec Not a ECTION Safet mixtu Feder esser	egulated as a dangerou sport in bulk accordin pplicable for product as estic regulation -002-SCT egulated as a dangerou ial precautions for us pplicable 15. REGULATORY IN y, health and environ	g to Annex II of M s supplied. s good er FORMATION mental regulations of chemical precurs and machinery for	s/legislation specific for the substance or
IMDG Not re Trans Not a Dome Not a Spec Not a ECTION Safet mixtu Fedel esser produ	egulated as a dangerou sport in bulk accordin pplicable for product as estic regulation -002-SCT egulated as a dangerou ial precautions for us pplicable 15. REGULATORY IN y, health and environ ure ral Law for the control c	g to Annex II of M s supplied. s good er FORMATION mental regulations of chemical precurs and machinery for and pills.	s/legislation specific for the substance or



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DSL		: not determined		
IECS	C	: not determined		

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

#### Full text of other abbreviations

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

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 Agency, http://echa.europa.eu/
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The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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