

## **Gonadorelin Formulation**

Versi 5.9	ion	Revision Date: 04/04/2023		0S Number: 3544-00016	Date of last issue: 10/01/2022 Date of first issue: 04/27/2016				
SEC	TION 1	I. IDENTIFICATION							
F	Product name :			Gonadorelin Forr	nulation				
I	Manufacturer or supplier's deta			ails					
	Company name of supplier Address		:	<ul> <li>Merck &amp; Co., Inc</li> <li>126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065</li> </ul>					
-	Teleph	one	:	908-740-4000					
		ency telephone address	:	1-908-423-6000 EHSDATASTEW	/ARD@merck.com				
I	Recon	nmended use of the c	her	nical and restricti	ons on use				
F	Recon	nmended use	:	Veterinary produ	ct				
F	Restric	tions on use	:	Not applicable					
ļ	<b>1910.1200)</b> Reproductive toxicity		-	-	A Hazard Communication Standard (29 CFR				
Specific target organ toxicity : Catego - repeated exposure (Oral) GHS label elements Hazard pictograms :									
	Signal Word :		:	Danger					
ł	Hazarc	Statements	:	the unborn child. H372 Causes da	ed of damaging fertility. Suspected of damaging mage to organs (Endocrine system) through eated exposure if swallowed.				
F	Precau	itionary Statements	:	Prevention:					

and understood.

and face protection.

**Response:** 

P201 Obtain special instructions before use.

P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling.

P202 Do not handle until all safety precautions have been read

P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, protective clothing, eye protection

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





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		<b>Storage:</b> P405 Store loc	cked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents and container to an approved waste
	r <b>hazards</b> known.		
ECTION	3. COMPOSITION/IN	FORMATION ON INC	GREDIENTS
Subst	tance / Mixture	: Mixture	
	ponents		
1	ical name	CAS-No.	Concentration (% w/w)
	/l alcohol	100-51-6	>= 1 - < 5
	dorelin al concentration is with	34973-08-5	
	4. FIRST AID MEASU	: In the case of advice immedi	
		: In the case of advice immedi	ately.
	ral advice	<ul> <li>In the case of a advice immedi</li> <li>When symptor advice.</li> <li>If inhaled, rem</li> </ul>	ately. ns persist or in all cases of doubt seek medical ove to fresh air.
Gener If inha	ral advice	<ul> <li>In the case of a advice immedi When symptor advice.</li> <li>If inhaled, rem Get medical at</li> <li>In case of cont of water.</li> </ul>	ately. ns persist or in all cases of doubt seek medical ove to fresh air. Itention.
Gener If inha	ral advice aled	<ul> <li>In the case of a advice immedi When symptor advice.</li> <li>If inhaled, rem Get medical at</li> <li>In case of cont of water. Remove conta Get medical at Wash clothing</li> </ul>	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention. tact, immediately flush skin with soap and plenty aminated clothing and shoes. ttention. before reuse.
Gener If inha In cas	ral advice aled	<ul> <li>In the case of a advice immedi When symptor advice.</li> <li>If inhaled, rem Get medical at of water. Remove conta Get medical at Wash clothing Thoroughly clete</li> </ul>	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention. tact, immediately flush skin with soap and plenty aminated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution.
Gener If inha In cas	ral advice aled se of skin contact	<ul> <li>In the case of a advice immedi When symptor advice.</li> <li>If inhaled, rem Get medical at</li> <li>In case of conto of water. Remove conta Get medical at Wash clothing Thoroughly cle</li> <li>Flush eyes wit Get medical at</li> <li>If swallowed, I Get medical at</li> </ul>	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention. tact, immediately flush skin with soap and plenty aminated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. ttention.
Gener If inha In cas If swa Most and e	ral advice aled se of skin contact se of eye contact illowed important symptoms ffects, both acute and	<ul> <li>In the case of a advice immedi When symptor advice.</li> <li>If inhaled, rem Get medical at</li> <li>In case of contor of water. Remove contar Get medical at Wash clothing Thoroughly clee</li> <li>Flush eyes wit Get medical at</li> <li>If swallowed, E Get medical at Rinse mouth th</li> <li>Suspected of or unborn child.</li> </ul>	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention. tact, immediately flush skin with soap and plenty aminated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. ttention. horoughly with water. damaging fertility. Suspected of damaging the
Gener If inha In cas In cas If swa Most and e delay	ral advice aled se of skin contact se of eye contact illowed important symptoms ffects, both acute and	<ul> <li>In the case of a advice immedi When symptor advice.</li> <li>If inhaled, rem Get medical at of water. Remove conta Get medical at Wash clothing Thoroughly clee</li> <li>Flush eyes wit Get medical at Rinse mouth the Suspected of of unborn child. Causes damage exposure if sw</li> <li>First Aid respore</li> </ul>	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention. tact, immediately flush skin with soap and plenty aminated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. ttention. horoughly with water. damaging fertility. Suspected of damaging the ge to organs through prolonged or repeated

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media :

: Water spray

Alcohol-resistant foam



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medi Spec fighti	ific hazards during fire	:	Carbon dioxide ( Dry chemical None known. Exposure to com Carbon oxides	CO2) bustion products may be a hazard to health.
ods Spec	sific extinguishing meth- sial protective equipment re-fighters	:	cumstances and Use water spray Remove undama so. Evacuate area. In the event of fir	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. Iged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. Intective equipment.
	6. ACCIDENTAL RELE	AS	· ·	
tive e	Personal precautions, protec- tive equipment and emer- gency procedures Environmental precautions		Follow safe hand	ntective equipment. ling advice (see section 7) and personal nent recommendations (see section 8).
Envir			Prevent spreadir oil barriers). Retain and dispo	eakage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	For large spills, p containment to k can be pumped, container. Clean up remaini absorbent. Local or national disposal of this m employed in the determine which Sections 13 and	rt absorbent material. provide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes.</li> </ul>



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		Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and sa practice, based on the results of the workplace exposure assessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to environment.					
Cond	itions for safe storage	<ul> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Store in accordance with the particular national regulational</li> </ul>					
Materials to avoid		<ul> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> <li>Explosives</li> <li>Gases</li> </ul>					

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Benzyl alcohol	100-51-6	TWA	10 ppm	US WEEL
Gonadorelin	34973-08-5	TWA	0.2 µg/m3 (OEB 5)	Internal
		Wipe limit	2 µg/100 cm <sup>2</sup>	Internal

#### Ingredients with workplace control parameters

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.			
Personal protective equipment	nt			
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 protection				
Material :	Chemical-resistant gloves			
Remarks :	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the			



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Eye protection		<ul> <li>resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.</li> <li>Wear the following personal protective equipment:</li> </ul>					
Skin a	and body protection	<ul> <li>Safety glasses</li> <li>Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.</li> <li>Skin contact must be avoided by using impervious protect clothing (gloves, aprons, boots, etc).</li> </ul>					
Hygiene measures		<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> </ul>					

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
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	:	No data available
Relative vapor density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available



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	Partition coefficient: n- octanol/water		:	No data availabl	е
	Autoigr	nition temperature	:	No data availabl	е
	Decom	position temperature	:	No data availabl	e
	Viscosity Viscosity, dynamic Viscosity, kinematic Explosive properties		:	No data availabl	е
			:	No data availabl	e
			:	Not explosive	
	Oxidizi	ng properties	:	The substance of	or mixture is not classified as oxidizing.
	Molecu	llar weight	:	Not applicable	
	Particle	esize	:	No data availabl	e

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
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.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method



ersion 9	Revision Date: 04/04/2023		9S Number: 3544-00016	Date of last issue: 10/01/2022 Date of first issue: 04/27/2016
<u>Com</u>	<u>oonents:</u>			
Benz	yl alcohol:			
Acute	oral toxicity	:	LD50 (Rat): 1,62	20 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4. Exposure time: Test atmospher Method: OECD	4h
Gona	dorelin:			
	oral toxicity	:	LD50 (Rat): > 3	,000 mg/kg
			LD50 (Mouse):	> 4,000 mg/kg
Acute	inhalation toxicity	:	Remarks: No da	ata available
Acute	dermal toxicity	:	Remarks: No da	ata available
-	<b>corrosion/irritation</b> lassified based on ava	ailable	information.	
<u>Com</u>	oonents:			
Benz	yl alcohol:			
Speci Metho Resul	bd	:	Rabbit OECD Test Gui No skin irritation	
Gona	dorelin:			
Rema		:	No data availab	le
	us eye damage/eye lassified based on ava			
<u>Com</u>	<u>oonents:</u>			
Benz	yl alcohol:			
Speci		:	Rabbit	
Resul Metho		:	Irritation to eyes OECD Test Gui	s, reversing within 21 days deline 405
Gona	dorelin:			
Rema		:	No data availab	le
-				
-	iratory or skin sensi	tizatio	on	
-	<b>sensitization</b> lassified based on ava	ailable	information.	
Resp	iratory sensitization			
-	lassified based on ava		information.	



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	<u>Comp</u>	<u>onents:</u>			
	Test Ty	s of exposure es d	:	Maximization Tes Skin contact Guinea pig OECD Test Guid negative	
	<b>Gonac</b> Remar	<b>dorelin:</b> ks	:	No data available	e
		<b>cell mutagenicity</b> assified based on avail	able	information.	
	<u>Comp</u>	onents:			
	Benzy	alcohol:			
	Genote	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
	Genote	oxicity in vivo	:	cytogenetic assa Species: Mouse	malian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
	Gonad	dorelin:			
	Genote	oxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
				Result: negative	o mammalian cell gene mutation test on data from similar materials
				Result: negative	nosome aberration test in vitro on data from similar materials
	Germ o Asses	cell mutagenicity - sment	:	Weight of eviden cell mutagen.	ce does not support classification as a germ
		nogenicity assified based on avail	able	information.	
	<u>Comp</u>	<u>onents:</u>			
	Benzy	l alcohol:			
		ation Route ure time	: : : :	Mouse Ingestion 103 weeks OECD Test Guid	eline 451



04/04/2023		S Number: 3544-00016	Date of last issue: 10/01/2022 Date of first issue: 04/27/2016
	:	negative	
e time	:	Mouse 2 Years 2.4 mg/kg body w positive Based on data fro	reight om similar materials
	:	mans.	weight or mode of action may not be relevant in hu- om similar materials
			t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.		
			t at levels greater than or equal to 0.1% is carcinogen by NTP.
ed of damaging fertili	ity. S	Suspected of dama	ging the unborn child.
<u>ients:</u>			
	:	Species: Rat Application Route Result: negative	y/early embryonic development e: Ingestion on data from similar materials
n fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development e: Ingestion
-	:	Species: Rat, fem Application Route Fertility: LOAEL: Result: Effects or Remarks: Based	e: Subcutaneous 50 μg/kg
	relin: e time s e time No ingredien identified as No compone on OSHA's li No ingredien identified as	relin: e time time No ingredient of t identified as prob No component of on OSHA's list of No ingredient of t identified as a kn No ingredient of t identified as a kn Luctive toxicity ed of damaging fertility. So nents: alcohol: on fertility : fertin:	<ul> <li>inegative</li> <li>inegative</li> <li>relin:         <ul> <li>inegative</li> <li>relin:                 <ul> <li>inegative</li> <li>inegative</li></ul></li></ul></li></ul>



ersion )	Revision Date: 04/04/2023	SDS Number: 613544-00016	Date of last issue: 10/01/2022 Date of first issue: 04/27/2016
		Fertility: LOA Result: Effect	Route: Subcutaneous NEL: 500 µg/kg
		Species: Ral Application F	Route: Subcutaneous NEL: 1,000 µg/kg
		Species: Do Application F	ertility/early embryonic development g, male and female Route: Subcutaneous λEL: 107 - 214 μg/kg ts on fertility.
Effec	ts on fetal development	Species: Rat Application F Developmen	mbryo-fetal development Route: Subcutaneous tal Toxicity: LOAEL: >= 2 μg/kg ts on fetal development.
		Species: Ral Application F Developmen	mbryo-fetal development obit Route: Subcutaneous tal Toxicity: LOAEL: > 20 μg/kg ts on fetal development.
Repro sessr	oductive toxicity - As- nent	fertility, base	nce of adverse effects on sexual function and d on animal experiments., Some evidence of cts on development, based on animal
	<b>F-single exposure</b> lassified based on avail	able information.	
	<b>F-repeated exposure</b> es damage to organs (E	Endocrine system)	through prolonged or repeated exposure if swal-
Caus lowed			
lowed			
lowed <u>Com</u> Gona Targe	d.	: Endocrine sy : Causes dam exposure.	/stem age to organs through prolonged or repeated
lowed <u>Com</u> Gona Targe Asses	d. ponents: idorelin: it Organs	: Causes dam	
lowed Com Gona Targe Asses Repe	d. ponents: adorelin: et Organs ssment	: Causes dam	
lowed Com Gona Targe Asses Repe Com	d. ponents: adorelin: at Organs ssment ated dose toxicity ponents: yl alcohol:	: Causes dam	



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Al E	OAEL oplication Route xposure time ethod	: : :	1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
G	onadorelin:			
N Aj Ež	pecies OAEL oplication Route xposure time emarks	: :	Rat 0.12 mg/kg Intramuscular 15 Days No significant ad	verse effects were reported
N Aj Ez	pecies OAEL oplication Route xposure time emarks	:	Rat 0.072 mg/kg Intravenous 15 Days No significant adv	verse effects were reported
N Al E	pecies OAEL oplication Route xposure time emarks	: : : : : : : : : : : : : : : : : : : :	Dog 0.12 mg/kg Intramuscular 15 Days No significant adv	verse effects were reported
N Aj Ez	pecies OAEL oplication Route xposure time emarks	:	Dog 0.072 mg/kg Intravenous 15 Days No significant adv	verse effects were reported
Ν	<b>spiration toxicity</b> ot classified based on availa <b>xperience with human exp</b>			
<u>C</u>	omponents:			
	onadorelin: gestion	:		sea, Abdominal pain, Headache, Palpitation, on change, bronchospasm, anaphylaxis
SECT	ION 12. ECOLOGICAL INF	OR	MATION	
E	cotoxicity			
<u>C</u>	omponents:			
	enzyl alcohol: oxicity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 460 mg/l 6 h
	oxicity to daphnia and other quatic invertebrates	:	Exposure time: 4	nagna (Water flea)): 230 mg/l 8 h Jost Guideline 202

Method: OECD Test Guideline 202



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Toxic plant	city to algae/aquatic s	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 770 '2 h Test Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 310 ′2 h Fest Guideline 201
aqua	city to daphnia and other tic invertebrates (Chron- kicity)		Exposure time: 2	magna (Water flea)): 51 mg/l 21 d Test Guideline 211
Pers	istence and degradabil	ity		
<u>Com</u>	ponents:			
	<b>zyl alcohol:</b> egradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Parti	<b>zyl alcohol:</b> tion coefficient: n- nol/water	:	log Pow: 1.05	
	<b>ility in soil</b> ata available			
	e <b>r adverse effects</b> ata available			

Biopedal methodo	
Waste from residues	: Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

UNRTDG Not regulated as a dangerous good IATA-DGR



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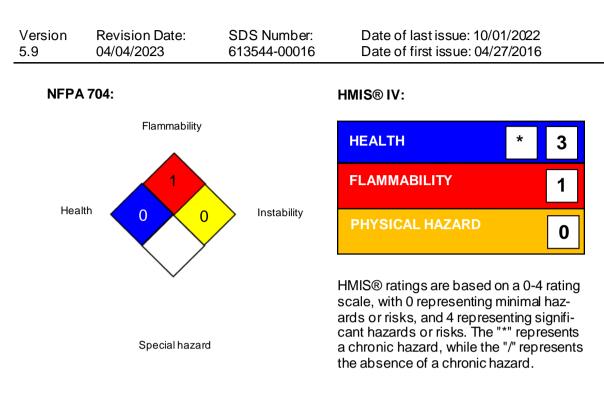
Version 5.9	Revision Date: 04/04/2023	-	DS Number: 3544-00016	Date of last issue: 10 Date of first issue: 0				
IMI	Not regulated as a dangerous good IMDG-Code							
Tra	Not regulated as a dangerous good Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.							
Do	mestic regulation							
	<b>49 CFR</b> Not regulated as a dangerous good							
-	ecial precautions for us t applicable	er						
SECTIO	ON 15. REGULATORY IN	FOF	RMATION					
Lis SA	CERCLA Reportable Quantity Listed substances in the product are at low enough levels to not be expected to exceed the RQ SARA 304 Extremely Hazardous Substances Reportable Quantity							
SA	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.							
SA	RA 311/312 Hazards	:	Reproductive to Specific target of	icity gan toxicity (single or	repeated exposure)			
SA	RA 313	:	known CAS num		mical components with hreshold (De Minimis) ītle III, Section 313.			
US	State Regulations							
Pe	nnsylvania Right To Kno Water Benzyl alcohol	w			7732-18-5 100-51-6			
The AIC	e ingredients of this pro	duc :	<b>t are reported in t</b> not determined	he following invento	ries:			
DS	L	:	not determined					

IECSC : not determined

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

Further information





#### Full text of other abbreviations

US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; 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 Hazardous 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act





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(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 Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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Revision Date : 04/04/2023

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