## SAFETY DATA SHEETS

# **This SDS packet was issued with item:** 078924571

N/A

## **MATERIAL SAFETY DATA SHEET**

#### SECTION I – PRODUCT INFORMATION

PRODUCT NAME: Fertagyl
OFFICIAL NAME: Fertagyl
PRODUCT TYPE: For the treatment of cystic ovaries, prevention of delayed ovulation and improvement of
conception rate in the post partum period of cattle. Induction of ovulation in rabbits.
DIN #: 02057751
TRANSPORT CLASSIFICATION: N/A
FORMULATION: Aqueous Solution
MANUFACTURER/SUPPLIER: Intervet International BV
The Netherlands
TELEPHONE: 1-800-268-4257
EMERGENCY #: 1-800-345-4735 (only to be
used after hours between 4:30pm - 8:30am)

#### SECTION II - INGREDIENT INFORMATION

INGREDIENTS – COMMON NAME	CONTENT IN PRODUCT	CAS#
Gonadorelin (Synthetic Gonadotrophin Releasing Hormone)	0.1mg/mL	33515 - 09 - 02: 34973 - 08 - 5: 52699 - 48 - 6 and 51952 - 41 - 1

FAX: 1-888-498-4444

#### SECTION III – PHYSICAL DATA

APPEARANCE AND ODOUR: A sterile aqueous solution for injection supplied in 10 x 5mL white capped vials.

#### SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY: N/A FLASH POINT: N/A EXPLOSION LIMITS: N/A EMERGENCY FIRE MEASURES: None CLASSIFICATION OF HAZARD: None OTHER SPECIAL PROPERTIES: None

#### SECTION V – HEALTH HAZARD DATA

MAXIMUM EXPOSURE LIMIT: None given
OCCUPATIONAL EXPOSURE STANDARD: None given
GENERAL HAZARD ASSESSMENT: Used as a sterile injectable pharmaceutical in accordance with the data sheet, this product should not present any hazards.
MAMMALIAN: Gonandorelin is considered to be non-toxic.
ACUTE ORAL LD<sub>50</sub>: Not known as it is inactivated in the gut.
ACUTE DERMAL LD<sub>50</sub>: Not known
EYE IRRITANCY: Not known; unlikely to present a problem in eye.
SKIN IRRITANCY: Not known; unlikely to present a problem in skin.
SENSITIZATION: Not known to occur
OTHER SPECIAL PROPERTIES: None

#### SECTION V - HEALTH HAZARD DATA (CONT.)

#### FIRST AID PROCEDURES:

Prevent further contact.

**NOTE TO PHYSICIAN:** There is a low possibility that self injection could induce ovulation.

#### SECTION VI – REACTIVITY DATA

N/A

#### SECTION VII – SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN: Wash down with copious quantities of clean water. Gonadorelin is rapidly broken down by the action of micro organisms.

#### DISPOSAL METHODS:

Product: Mix with a combustible carrier and incinerate in an incinerator fitted with an after burner and scrubber. Used Containers: As above.

#### SECTION VIII - SPECIAL PROTECTION INFORMATION

#### PROTECTIVE EQUIPMENT: None

#### SECTION IX - STORAGE AND HANDLING PRECAUTIONS

STORAGE AND HANDLING: Store in a cool dry place 6-15°C. Wash hands well after use. PRECAUTIONS: Avoid self injection. EMPLOYER: N/A OPERATOR: Follow data sheet instructions and use normal aseptic technique.

#### SECTION X - ECOLOGICAL INFORMATION

WILDLIFE AND ENVIRONMENT:

Fish: No contact anticipated. Birds: No contact anticipated. Environmental Impact: No effects anticipated.

#### SECTION XI – TRANSPORTATION

CONDITIONS: In accordance with goods normally stored under refrigeration.

#### SECTION XII - ADDITIONAL INFORMATION

RELEVANT APPROVED CODES OF PRACTICE: The legal category of this product is POM.

#### FOR ANIMAL USE ONLY

The information contained herein is true and accurate to the best of the knowledge of Intervet Canada Ltd. However, all data, instructions and/or recommendations are made without guarantee.

SIGNED: \_\_\_\_\_

DATE ISSUED: January 2, 2008



Version 5.2	Revision Date: 09/13/2019	SDS Number: 613544-00009	Date of last issue: 04/24/2019 Date of first issue: 04/27/2016			
SECTION	1. IDENTIFICATION					
Produ	uct name	: Gonadorelin Fo	ormulation			
Manu	ufacturer or supplier's	details				
Com Addre	pany name of supplier ess	: 2000 Galloping	<ul> <li>Merck &amp; Co., Inc</li> <li>2000 Galloping Hill Road</li> <li>Kenilworth - New Jersey - U.S.A. 07033</li> </ul>			
Telef Emer	bhone ax rgency telephone ail address	: 908-740-4000 : 908-735-1496 : 1-908-423-6000				
	ommended use of the c					
Reco	mmended use	: Veterinary prod	luct			
SECTION	2. HAZARDS IDENTIFI	CATION				
	classification in accor		1910.1200			
Repr	oductive toxicity	: Category 2				
•	ific target organ toxicity eated exposure (Oral)	: Category 1 (En	docrine system)			
GHS	label elements					
Haza	Ird pictograms					
Signa	al Word	: Danger				
Haza	rd Statements	the unborn child H372 Causes d	ted of damaging fertility. Suspected of damagin d. lamage to organs (Endocrine system) through peated exposure if swallowed.			
Preca	autionary Statements	· Prevention:				
		P202 Do not ha and understood P260 Do not br P264 Wash ski P270 Do not ea	eathe mist or vapors. n thoroughly after handling. at, drink or smoke when using this product. tective gloves/ protective clothing/ eye protectic			
		<b>Response:</b> P308 + P313 IF attention.	exposed or concerned: Get medical advice/			
		<b>Storage:</b> P405 Store lock	ked up.			



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		<b>Disposal:</b> P501 Dispose o posal plant.	of contents/ container to an approved waste dis-		
	<b>r hazards</b> known.				
	3. COMPOSITION/INF	ORMATION ON ING	REDIENTS		
Subst	tance / Mixture	: Mixture			
Com	ponents				
	nical name	CAS-No.	Concentration (% w/w)		
	yl alcohol	100-51-6	>= 1 - < 5		
	dorelin	34973-08-5			
ECTION	4. FIRST AID MEASU	RES			
Gene	ral advice	advice immedia	accident or if you feel unwell, seek medical ately. ns persist or in all cases of doubt seek medical		
lf inha	aled	: If inhaled, remo Get medical att			
In cas	se of skin contact	: In case of conta of water. Remove conta Get medical att Wash clothing	act, immediately flush skin with soap and plenty minated clothing and shoes. tention.		
In cas	se of eye contact	: Flush eyes with	n water as a precaution. tention if irritation develops and persists.		
lf swa	allowed	: If swallowed, D Get medical att	<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	: Suspected of d unborn child. Causes damag	amaging fertility. Suspected of damaging the get to organs through prolonged or repeated		
Prote	ction of first-aiders	: First Aid respon and use the rec	exposure if swallowed. 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).		
Notes	s to physician		atically and supportively.		

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing	:	None known.



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	fighting	c hazards during fire lous combustion prod-	:	Exposure to comb	oustion products may be a hazard to health.
	ods	c extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so. Evacuate area.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	•	l protective equipment fighters	:	Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	CTION 6	. ACCIDENTAL RELE	ASI	EMEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Use personal prot Follow safe handl equipment recom	ing advice and personal protective
	Enviror	nmental precautions	:	-	e environment must be avoided.

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). 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	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 under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Avoid inhalation of vapor or mist.
		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure



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	itions for safe storage rials to avoid	environment. : Keep in proper Store locked up Store in accord	lance with the particular national regulations. th the following product types: g agents
		Gases	

#### 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
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

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
Personal protective equipmen	t
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 resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.



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Eye p	protection	: Wear the follow Safety glasses	ing personal protective equipment:
Skin a	and body protection	<ul> <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 protecti clothing (gloves, aprons, boots, etc).</li> </ul>	
Hygie	ene measures	eye flushing sys working place. When using do	hemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. ated clothing before re-use.

#### 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	:	No data available
range 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
Partition coefficient: n-	:	No data available
octanol/water Autoignition temperature	:	No data available

#### SAFETY DATA SHEET



## **Gonadorelin Formulation**

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Visco Vi	Decomposition temperature Viscosity Viscosity, dynamic Viscosity, kinematic		No data available No data available No data available	e e
Explo	Explosive properties		Not explosive	
Moleo	Oxidizing properties Molecular weight Particle size		The substance o Not applicable No data available	r mixture is not classified as oxidizing.

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	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.

#### 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
Components:		
Benzyl alcohol: Acute oral toxicity	:	LD50 (Rat): 1,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.178 mg/l



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			Exposure time: 4 Test atmosphere Method: OECD 1	
Gona	adorelin:			
Acute	e oral toxicity	:	LD50 (Rat): > 3,0	000 mg/kg
			LD50 (Mouse): >	- 4,000 mg/kg
Acute	e inhalation toxicity	:	Remarks: No dat	ta available
Acute	e dermal toxicity	:	Remarks: No dat	ta available
-	corrosion/irritation			
	lassified based on ava ponents:	ailable	information.	
	yl alcohol:			
Spec	•	:	Rabbit	
Meth	bd	:	OECD Test Guid	leline 404
Resu	lt	:	No skin irritation	
Gona	dorelin:			
Rema	arks	:	No data available	e
Not c	ous eye damage/eye i lassified based on ava ponents:			
Benz	yl alcohol:			
Spec	•	:	Rabbit	
Resu	lt	:		reversing within 21 days
Meth	DQ	:	OECD Test Guid	leline 405
Gona	dorelin:			
Rema	arks	:	No data available	e
Resp	iratory or skin sensi	tizatio	'n	
	sensitization lassified based on ava	ailable	information.	
-	iratory sensitization lassified based on ava		information.	
Com	ponents:			
Benz	yl alcohol:			
Test	•	:	Maximization Te	st
	es of exposure	:	Skin contact	



rsion	Revision Date: 09/13/2019	SDS Number: 613544-00009	Date of last issue: 04/24/2019 Date of first issue: 04/27/2016
Specie Metho Resul	od	: Guinea pig : OECD Test : negative	Guideline 406
<b>Gona</b> Rema	<b>dorelin:</b> rks	: No data ava	ailable
	cell mutagenicity		
Not cl	assified based on ava	ailable information.	
Comp	oonents:		
Benzy	/I alcohol:		
Genot	oxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
Genot	oxicity in vivo	cytogenetic Species: M	ouse Route: Intraperitoneal injection
Gona	dorelin:		
Genot	oxicity in vitro	Result: neg	Bacterial reverse mutation assay (AMES) ative Based on data from similar materials
		Result: neg	In vitro mammalian cell gene mutation test ative Based on data from similar materials
		Result: neg	Chromosome aberration test in vitro ative Based on data from similar materials
	cell mutagenicity - sment	: Weight of e cell mutage	vidence does not support classification as a ger n.
	nogenicity assified based on ava	allable information	
	onents:		
-	/l alcohol:		
Speci Applic	es cation Route sure time od	: Mouse : Ingestion : 103 weeks : OECD Test : negative	: Guideline 451
-			
	dorelin:		
Speci	5	: Mouse	



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Exposu LOAEL Result Remark		: positive	: 2.4 mg/kg body weight						
Species Exposu LOAEL Result Remark	ire time	: negative : Benign tumor The mechanis mans.	<ol> <li>1 Years</li> <li>0.05 mg/kg body weight</li> <li>negative</li> <li>Benign tumor(s)</li> <li>The mechanism or mode of action may not be relevant in hu-</li> </ol>						
IARC			sent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.						
OSHA		ent of this product pr ist of regulated carc	esent at levels greater than or equal to 0.1% is inogens.						
NTP			sent at levels greater than or equal to 0.1% is ted carcinogen by NTP.						
Suspec		lity. Suspected of da	maging the unborn child.						
Suspec <u>Compo</u> Benzyl	ted of damaging fertil	: Test Type: Fe Species: Rat Application Ro Result: negati	ertility/early embryonic development						
Suspec <u>Compo</u> Benzyl Effects	eted of damaging fertil onents: alcohol:	: Test Type: Fe Species: Rat Application Ro Result: negati Remarks: Bas t : Test Type: En Species: Mou	ertility/early embryonic development oute: Ingestion ve sed on data from similar materials nbryo-fetal development se oute: Ingestion						
Suspec Compo Benzyl Effects Effects	eted of damaging fertil onents: alcohol: on fertility on fetal development	<ul> <li>Test Type: Fe Species: Rat Application Ro Result: negati Remarks: Bas</li> <li>Test Type: En Species: Mou Application Ro Result: negati</li> </ul>	ertility/early embryonic development oute: Ingestion ve sed on data from similar materials nbryo-fetal development se oute: Ingestion ve						
Suspec Compo Benzyl Effects Effects	eted of damaging fertil onents: alcohol: on fertility on fetal development	<ul> <li>Test Type: Fe Species: Rat Application Ro Result: negati Remarks: Bas</li> <li>Test Type: En Species: Mou Application Ro Result: negati</li> <li>Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: Effects</li> </ul>	ertility/early embryonic development oute: Ingestion ve sed on data from similar materials nbryo-fetal development se oute: Ingestion ve ertility/early embryonic development female oute: Subcutaneous EL: 50 µg/kg						



Versi 5.2	on	Revision Date: 09/13/2019		0S Number: 3544-00009	Date of last issue: 04/24/2019 Date of first issue: 04/27/2016
				Test Type: Fertilit Species: Rabbit Application Route Fertility: LOAEL: 7 Result: Effects on	1,000 µg/kg
				Test Type: Fertilit Species: Dog, ma Application Route Fertility: LOAEL: Result: Effects on	: Subcutaneous I07 - 214 μg/kg
E	Effects on fetal development		:	Species: Rat Application Route Developmental To	ro-fetal development : Subcutaneous oxicity: LOAEL: >= 2 μg/kg fetal development.
				Species: Rabbit Application Route Developmental To	ro-fetal development : Subcutaneous oxicity: LOAEL: > 20 μg/kg fetal development.
	Reprod sessme	uctive toxicity - As- ent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal
		<b>single exposure</b> ssified based on availa	able	information	
9 (	STOT-I	repeated exposure			igh prolonged or repeated exposure if swal-
-	-	onents:			

#### Components:

Gonad	dorelin:
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Target Organs	:	Endocrine system
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

#### Repeated dose toxicity

#### Components:

#### Benzyl alcohol:

Species	:	Rat
NOAEL	:	1.072 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	28 Days
Method	:	OECD Test Guideline 412



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Spec NOA Appli Expo Rema Spec NOA Appli Spec NOA Appli	Gonadorelin: Species NOAEL Application Route Exposure time Remarks Species NOAEL Application Route Exposure time Remarks Species NOAEL Application Route Exposure time Remarks Species NOAEL Application Route Exposure time Remarks		<ul> <li>Rat</li> <li>0.12 mg/kg</li> <li>Intramuscular</li> <li>15 Days</li> <li>No significant adverse effects were reported</li> <li>Rat</li> <li>0.072 mg/kg</li> <li>Intravenous</li> <li>15 Days</li> <li>No significant adverse effects were reported</li> <li>Dog</li> <li>0.12 mg/kg</li> <li>Intramuscular</li> <li>15 Days</li> </ul>						
Spec NOA Appli Expo			<ul> <li>No significant adverse effects were reported</li> <li>Dog</li> <li>0.072 mg/kg</li> <li>Intravenous</li> <li>15 Days</li> <li>No significant adverse effects were reported</li> </ul>						
Not c	ration toxicity classified based on availa erience with human exp								
<u>Com</u>	ponents:								
<b>Gona</b> Inges	adorelin: stion	:		ea, Abdominal pain, Headache, Palpitation, on change, bronchospasm, anaphylaxis					
SECTION	12. ECOLOGICAL INFO	ORI	ATION						
Ecot	oxicity								
Com	ponents:								
	yl alcohol:								
	sity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 460 mg/l 6 h					
	bity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 230 mg/l 8 h rest Guideline 202					
Toxic	city to algae/aquatic	:	EC50 (Pseudokir	chneriella subcapitata (green algae)): 770					



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				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te			
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	<ul> <li>NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211</li> </ul>			
	Persist	tence and degradabil	ity				
	Compo	onents:					
	-	alcohol:					
	Biodegradability Bioaccumulative potential <u>Components:</u>		:	Result: Readily bi Biodegradation: 9 Exposure time: 14	92 - 96 %		
	Partitio	nzyl alcohol: rtition coefficient: n- : anol/water		log Pow: 1.05			
		r <b>y in soil</b> a available					
		adverse effects a available					
SEC	SECTION 13. DISPOSAL CONSIDE		DER	ATIONS			
	Dispos	al methods					
	Waste	from residues ninated packaging	:	Empty containers handling site for re	ordance with local regulations. should be taken to an approved waste ecycling or disposal.		

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

If not otherwise specified: Dispose of as unused product.



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#### **Domestic regulation**

## 49 CFR

Not regulated as a dangerous good

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

#### EPCRA - Emergency Planning and Community Right-to-Know

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Acetic acid	64-19-7	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

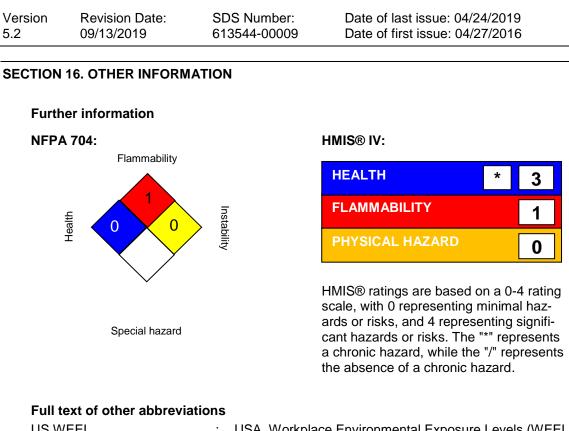
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **US State Regulations**

Pennsylvania Right To Know							
Water Benzyl alco	bhol	7732-18-5 100-51-6					
The ingredients of the time of time of the time of time of the time of time of the time of the time of tim	ingredients of this product are reported in the following inventories:						
AICS	: not determined						
DSL	: not determined						
IECSC	: not determined						





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

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





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	Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative				
			data, data from raw material SDSs, OECD Irch results and European Chemicals Agen- opa.eu/		
	Revisio	n Date	:	09/13/2019	
	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.				

US / Z8