

Revision: 12/03/2017

		perding to Degulation (EQ) No. 4007/0000	(FC) No. 1272/2000				
		cording to Regulation (EC) No. 1907/2006 as amended by					
	Section 1.	Identification of the Substance/Mixture and of the	ne Company/Undertaking				
.1	Product Code:	23778					
	Product Name:	Pancuronium (bromide)					
	Synonyms:		a.)-3,17-bis(acetyloxy)androstane-2,16-diyl]bis[1				
		methyl-piperidinium], dibromide; NSC 293162;					
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses	: For research use only, not for human or vetering	nary use.				
.3							
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone nur						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
2.1	Classification of the Subs						
	Acute Toxicity: Oral, Ca	tegory 3					
2.2	Label Elements:						
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:						
	H301: Toxic if swallowed.						
	GHS Precaution Phrase						
	P264: Wash {hands} thor						
	GHS Response Phrases:						
	P301+310: IF SWALLOW P330: Rinse mouth.	ED: Immediately call a POISON CENTER or doctor	r/physician.				
	GHS Storage and Dispo						
	Please refer to Section 7	for Storage and Section 13 for Disposal information.					
2.3	Adverse Human Health	Material may be irritating to the mucous membrane	es and upper respiratory tract.				
	Effects and Symptoms:	May be harmful by inhalation or skin absorption.					
		May cause eye, skin, or respiratory system irritatio Toxic if swallowed.	n.				
		To the best of our knowledge, the toxicological pro	parties have not been thoroughly investigated				
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Multi-region format



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Section 3. Composition/Information on Ingredients									
CAS # / Hazardous Com RTECS # REACH Registra			ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
		•	dihydroxy-5alpha-androstan-2be (1-methyl-, dib	100.0 %	239-532-5 NA	Acute Tox.(O) 3: H301			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Descrip Measur	tion of First Aid es:							
	In Case of Inhalation: In Case of Skin Contact: In Case of Eye Contact:		Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.						
			-	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
			Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.						
	In Case	of Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	-	-	ve anything by mouth to an ng unless directed to do so by			
			Section 5. Fire	Fighting Mea	asures				
5.1	Suitable Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		r, or dry chemical	spray.			
	Unsuita Media:	ble Extinguishing	a A solid water stream may be	-					
5.2	Flamma	able Properties an	dNo data available.						
	Hazards	5:							
			No data available.						
	Flash P		No data.						
	-	ve Limits:	LEL: No data.	UEL: No da	ita.				
5.2	-	hition Pt:	No data.	ained breathing anno	ratua progouro d				
5.3	Fire Fig	nting instructions	s: As in any fire, wear self-conta equivalent), and full protectiv		-				
			Section 6. Acciden	ital Release N	<i>leasures</i>				
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide ad	equate ventilation				
						athing apparatus, or respirator,			
	-	ncy Procedures:	and appropriate personal pro			, and heavy rubber gloves).			
6.2	Environ Precaut	ions:	Take steps to avoid release		, if safe to do so.				
6.3			r Contain spill and collect, as ang Transfer to a chemical waste		sal in accordance	with local regulations.			

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7.1		Section 7. Handling and Storage
/.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Secti	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	, ,	levels below recommended exposure limits.
8.2.2	Personal protection equip	
	-	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:	Lab coat
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe
		Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physi	cal and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	A solid
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: No data. UEL: No data.
	Explosive Limits: Vapor Pressure (vs. Air or	LEL: No data. UEL: No data.
	Explosive Limits: Vapor Pressure (vs. Air or Hg):	LEL: No data. UEL: No data. mm No data.
	Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1):	LEL: No data. UEL: No data. mm No data. No data.
	Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1	LEL: No data. UEL: No data. mm No data. No data.): No data.
	Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1 Solubility in Water:	LEL: No data. UEL: No data. mm No data. No data. No data. No data. No data.
	Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1 Solubility in Water: Solubility Notes:	LEL: No data. UEL: No data. mm No data. No data. No data. No data. No data. Soluble (slightly) in: MeOH; DMSO; chloroform;
	Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1 Solubility in Water: Solubility Notes: Octanol/Water Partition	LEL: No data. UEL: No data. mm No data. No data. No data. No data. No data.
	Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1 Solubility in Water: Solubility Notes:	LEL: No data. UEL: No data. mm No data. No data. No data. No data. No data. Soluble (slightly) in: MeOH; DMSO; chloroform;
	Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1 Solubility in Water: Solubility Notes: Octanol/Water Partition	LEL: No data. UEL: No data. mm No data. No data. No data. No data. No data. Soluble (slightly) in: MeOH; DMSO; chloroform;



	Autoigni	tion Pt:		No data.					
	Decomp	osition Temperat	ure:	No data.					
	Viscosit	y:		No data.					
9.2	Other Inf	ormation							
	Percent	Volatile:		No data.					
	Molecula	ar Formula & Weig	ght:	C35H60N2O4 • 2Br	732.7				
			-	ection 10. Stabilit	tv and	Reactiv	vitv		
0.1	Reactivit	tv-		a available.	ly unu	Redour	vity		
10.2	Stability	-	Unstab						
10.3	Stability			if stored in accordance with	th informat	tion listed o	on the product	insert.	
	Polymer			cur [] Will not occur [•		
10.4	-	ns To Avoid:		a available.					
10.5	Incompa	tibility - Materials	s strona	oxidizing agents					
	To Avoid	-	0	5 5					
10.6	Hazardo	us	carbon	dioxide					
	Decomp	osition or	carbon	monoxide					
	Byprodu	icts:	hydrog	en bromide					
			nitroge	n oxides					
			Se	ction 11. Toxicolo	ogical	Informa	ation		
11.1	Informat	Information on		The toxicological effects of this product have not been thoroughly studied.					
	Toxicological Effects:		Pancuronium (bromide) - Toxicity Data: Oral LD50 (rat): 202 mg/kg; Intraperitoneal LD50 (rat): 47						
	Toxicolo	gical Effects:		•					I LD50 (rat): 4
	Toxicolo	gical Effects:	Pancur	•	v Data: Ora	al LD50 (ra	t): 202 mg/kg;	Intraperitonea	
	Toxicolo	ogical Effects:	Pancur ug/kg;	ronium (bromide) - Toxicity	/ Data: Ora 436 ug/kg	al LD50 (ra j; Oral LD5	t): 202 mg/kg; 0 (mosue): 21	Intraperitonea	
		ogical Effects: Toxicological	Pancur ug/kg; (mosue	ronium (bromide) - Toxicity Subcutaneous LD50 (rat):	v Data: Ora 436 ug/kg us RLD50	al LD50 (ra g; Oral LD5 (mosue): ⁄	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg;	Intraperitonea 200 ug/kg; Intr	aperitoneal LD
		-	Pancur ug/kg; (mosue Pancur Only se	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effe	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che	al LD50 (ra ; Oral LD5 (mosue): drug, muta emical Sub	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr	Intraperitonea 200 ug/kg; Intr oductive effect	aperitoneal LD
	Chronic	-	Pancur ug/kg; (mosue Pancur Only se See ac	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effe tual entry in RTECS for co	2 Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf	al LD50 (ra g; Oral LD5 (mosue): drug, muta emical Sub formation.	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE	Intraperitonea 200 ug/kg; Intr oductive effect	aperitoneal LD
	Chronic	-	Pancur ug/kg; (mosue Pancur Only se See ac	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effe	2 Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf	al LD50 (ra g; Oral LD5 (mosue): drug, muta emical Sub formation.	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE	Intraperitonea 200 ug/kg; Intr oductive effect	aperitoneal LD
CAS	Chronic Effects:	Toxicological	Pancur ug/kg; (mosue Pancur Only se See ac Pancur	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effe tual entry in RTECS for co	2 Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf	al LD50 (ra g; Oral LD5 (mosue): drug, muta emical Sub formation.	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE	Intraperitonea 200 ug/kg; Intr oductive effect	aperitoneal LD
	Chronic Effects:	Toxicological Hazardous Com Piperidinium,	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponent s	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name)	2 Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T	al LD50 (ra g; Oral LD5 (mosue): drug, muta emical Sub formation. N4930000	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
	Chronic Effects: #	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co ronium (bromide) RTECS N s (Chemical Name)	2 Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T	al LD50 (ra g; Oral LD5 (mosue): drug, muta emical Sub formation. N4930000 NTP	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
	Chronic Effects: #	Toxicological Hazardous Com Piperidinium,	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effe ctual entry in RTECS for co ronium (bromide) RTECS N s (Chemical Name)	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T	al LD50 (ra g; Oral LD5 (mosue): - drug, muta emical Sub- formation. N4930000 NTP n.a.	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
	Chronic Effects: #	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co ronium (bromide) RTECS N s (Chemical Name)	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T	al LD50 (ra g; Oral LD5 (mosue): - drug, muta emical Sub- formation. N4930000 NTP n.a.	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155	Chronic Effects: #	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-ma	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for con- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be- ib	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
	Chronic Effects: # 00-66-0	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-ma	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be ib	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155	Chronic Effects: # 00-66-0	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-ma	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for con- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be- ib	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155 12.1	Chronic Effects: # 00-66-0 Toxicity:	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-me	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2bd ib ection 12. Ecolog release into the environmer from fire control or dilution	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155 12.1	Chronic Effects: # 00-66-0 Toxicity: Persiste	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-ma ta-ylene-)bis(1-ma bility:	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d S Avoid r Runoff No data	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2bd ib section 12. Ecolog release into the environmer from fire control or dilution	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155 12.1 12.2	Chronic Effects: # 00-66-0 Toxicity: Persiste Degrada	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-me since and bility: mulative	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d S Avoid r Runoff No data	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be- ib ection 12. Ecolog release into the environmer from fire control or dilution a available.	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155 12.1 12.2	Chronic Effects: # 00-66-0 Toxicity: Persiste Degrada Bioaccu	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-me ta-ylene-)	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents etta-dihyce ethyl-, d S Avoid r Runoff No data	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be- ib ection 12. Ecolog release into the environmer from fire control or dilution a available.	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155 12.1 12.2 12.3	Chronic Effects: # 00-66-0 Toxicity: Persiste Degrada Bioaccu Potentia Mobility	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-me ta-ylene-)	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d S Avoid r Runoff No data No data	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): - e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be- ib Section 12. Ecolog release into the environment from fire control or dilution a available. a available.	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155 12.1 12.2 12.3 12.4	Chronic Effects: # 00-66-0 Toxicity: Persiste Degrada Bioaccu Potentia Mobility	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-me ta-ylene-)	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d S Avoid r Runoff No data No data	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): - e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be- ib Section 12. Ecolog release into the environment from fire control or dilution a available. a available.	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.
155 12.1 12.2 12.3 12.4	Chronic Effects: # 00-66-0 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	Toxicological Hazardous Com Piperidinium, 1,1'-(3alpha,17be ta-ylene-)bis(1-me ta-ylene-)	Pancur ug/kg; (mosue Pancur Only se See ac Pancur ponents eta-dihyc ethyl-, d S Avoid r Runoff No data No data	ronium (bromide) - Toxicity Subcutaneous LD50 (rat): - e): 120 ug/kg; Subcutaneou ronium (bromide) - Investig elect Registry of Toxic Effec- tual entry in RTECS for co- ronium (bromide) RTECS N s (Chemical Name) droxy-5alpha-androstan-2be- ib Section 12. Ecolog release into the environment from fire control or dilution a available. a available.	v Data: Ora 436 ug/kg us RLD50 gated as a ects of Che omplete inf Number: T veta,16be gical In nt.	al LD50 (ra g; Oral LD5 (mosue): 7 drug, muta emical Sub- formation. N4930000 NTP n.a. formati	t): 202 mg/kg; 0 (mosue): 21 167 ug/kg; agen, and repr stances (RTE IARC n.a.	Intraperitonea 200 ug/kg; Intr roductive effect CS) data is pre	aperitoneal LD or. sented here.



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		Section 13. Dispos	al Considera	tions	
3.1 Waste l	Disposal Method:	Dispose in accordance with loca	I, state, and federal	regulations.	
		Section 14. Trans	sport Informa	tion	
14.1 LAND	TRANSPORT (US D	ОТ):			
DOT Prop	er Shipping Name:	Toxic solids, organic, n.o.s.	(Pancuronium (brom	ide))	
DOT Haza	rd Class:	6.1 POISON			
UN/NA Nu	mber:	UN2811	Packing Gro	up:	III
		POISON 6			
	TRANSPORT (Euro				
	Shipping Name:	Toxic solids, organic, n.o.s.			
UN Numbe		2811 6.1 POISON	Packing Gro	up:	III
Hazard Cla		6.1 - POISON			
	ANSPORT (ICAO/I	•	(Papauranium (hram	(ido)	
	A Shipping Name:	Toxic solids, organic, n.o.s. 2811	Packing Gro		Ш
Hazard Cla		6.1 - POISON	IATA Classif	-	6.1
Additional Tra		Transport in accordance with lo			0.1
Information:	moport	When sold in quantities of less t		-	excepted Quantity Code
		E1, E2, E4, or E5, this item mee	-	-	
		Therefore packaging does not h	ave to be labeled as	Dangerous Good	ls/Excepted Quantity.
		Section 15. Regul	atory Informa	tion	
EPA SARA (S	uperfund Amendm	ents and Reauthorization Act o	of 1986) Lists		
CAS #	Hazardous Comp	oonents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
15500-66-0		a-dihydroxy-5alpha-androstan-2 -)bis(1-methyl-, dib	No	No	No
CAS #	Hazardous Comp	oonents (Chemical Name)	Other US EPA or	State Lists	
CAS # 15500-66-0	Piperidinium, 1,1'-(3alpha,17bet	a-dihydroxy-5alpha-androstan-2 -)bis(1-methyl-, dib			No; TSCA: No; CA



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Section 16. Other Information			
Revision Date:	12/03/2017		
Additional Information About	No data available.		
This Product:			
Company Policy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.		