

Revision: 04/22/2018

	Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking			
1	Product Code:	25047	6			
1.1	Product Code: Product Name:	25047 Progesterone-d9				
	Synonyms:	pregn-4-ene-3,20-dione-2,2,4,6,6,17,21,21,21-	d9: Crinone®-d9: Cyclogest-d9: Endometrin®			
	eynenyme.	Utrogestan®-d9;				
.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	Details of the Supplier of the Safety Data Sheet:					
	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 nui					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identifica	ation			
2.1	Classification of the Subs	tance or Mixture				
	Carcinogenicity, Catego	ory 2				
.2	Label Elements:					
2.2	Label Elements:	Warning				
2.2		Warning				
2.2	GHS Signal Word:	-				
2.2	GHS Signal Word: GHS Hazard Phrases:	ing cancer.				
2.2	GHS Signal Word: GHS Hazard Phrases: H351: Suspected of caus	ing cancer.				
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Multi-region format



Measures:       In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained per Get immediate medical attention.         In Case of Skin Contact:       Immediate medical attention if symptoms occur. Wash clothing before reuse.         In Case of Skin Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes of and tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Never give anything by mouth 1 unconscious person. Get medical attention. Do NOT induce vomiting unless directed to dimedical personnel.         Section 5. Fire Fighting Measures       Section 5. Fire Fighting Measures         5.1       Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.       Media:         5.2       Flammable Properties andNo data available.       Hazards:         No data available.       Flash Pt:       No data.         Explosive Limits:       LEL: No data.       UEL: No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus prassure-demand (NIOSH approve equivalent), and full protective gear to prevent contact with skin and eyes.         5.4       Protective Precautions,       Avoid raising and breathing dus	n EC No./ GHS Classification EC Index No.	Concentration	Hazardous Components (Chemical Name)/ REACH Registration No.		CAS # / RTECS #		
<ul> <li>1. Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained pr Get immediate medical attention. In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove con clothing. Get medical attention if symptoms occur. Wash clothing before reuse. In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes a and tested by medical personnel. In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth t unconscious person. Get medical attention. Do NOT induce vomiting unless directed to di medical personnel. Section 5. Fire Fighting Measures 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsultable Extinguishing A solid water stream may be inefficient. Media: Use water spray to cool fire-exposed containers. Unsultable Extinguishing A solid water stream may be inefficient. Media: No data available. Flash Pt: No data. Explosive Limits: LEL: No data. UEL: No data. Autoignition Pt: No data. 5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approv equivalent), and full protective gear to prevent contact with skin and eyes. Section 6. Accidental Release Measures 5.1 Protective Precautions; A vioid raising and breathing dust, and provide adequate veniliation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or re Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber glo Trate steps to avoid release into the environment, if safe to do so. Precautions: 3.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container</li></ul>		100.0 %	Pregn-4-ene-3,20-dione-2,2,4,6,6,17,21,21,21,21-d9				
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Section 6. Accidental Release Measures         6.1       Protective Precautions, Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or re Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber glov 6.2         6.2       Environmental Take steps to avoid release into the environment, if safe to do so. Precautions:         6.3       Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up:         Section 7. Handling and Storage         7.1       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.							
<ul> <li>6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.</li> <li>Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or remargency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber glow Take steps to avoid release into the environment, if safe to do so.</li> <li>Precautions:</li> <li>6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up:</li> <li>Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up:</li> <li>Contains To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.</li> <li>7.2 Precautions To Be Taken Keep container tightly closed.</li> </ul>	nt contact with skin and eyes.	gear to prevent co	quivalent), and full protectiv				
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or re         Emergency Procedures:       and appropriate personal protection (rubber boots, safety goggles, and heavy rubber glow         6.2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       6.3       Methods and Material For       Contain spill and collect, as appropriate.         Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.       Up:         7.1       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.	e Measures	al Release N	ection 6. Accider				
<ul> <li>Precautions:</li> <li>Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up:</li> <li>Section 7. Handling and Storage</li> <li>Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.</li> <li>Precautions To Be Taken Keep container tightly closed.</li> </ul>	ved self-contained breathing apparatus, or respirate	Protective Equipment and					
Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 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.	ment, if safe to do so.	<b>Environmental</b> Take steps to avoid release into the environment, if safe to do so.					
<ul> <li>7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>in Handling: Avoid prolonged or repeated exposure.</li> <li>7.2 Precautions To Be Taken Keep container tightly closed.</li> </ul>	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.				6.3		
in Handling:Avoid prolonged or repeated exposure.7.2Precautions To Be TakenKeep container tightly closed.	Storage	dling and Sto	Section 7. Hai				
7.2 Precautions To Be Taken Keep container tightly closed.	•			Precautions To Be Taken	7.1		
		exposure.	void prolonged or repeated	in Handling:			
• • • • • • • • • • • • • • • • • • •			eep container tightly closed	Precautions To Be Taken	7.2		
in Storing: Store in accordance with information listed on the product insert.							



3.1 3.2 3.2.1 3.2.2		process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
3.2.1	Engineering Controls Use	process enclosures, local exhaust ventilation, or other engineering controls to control airborn				
		process enclosures, local exhaust ventilation, or other engineering controls to control airborn				
3.2.2	(Ventilation etc.): leve	process choiced exhaust ventilation, or other engineering controls to control alloom				
3.2.2		Is below recommended exposure limits.				
	Personal protection equipment:					
	Eye Protection: Safe	ty glasses				
	Protective Gloves: Con	patible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment NIO	SH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan Dor	iot take internally.				
		lities storing or utilizing this material should be equipped with an eyewash and a safety showe				
	Was	h thoroughly after handling.				
	No c	data available.				
	Secti	on 9. Physical and Chemical Properties				
9.1	Information on Basic Physical					
	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.				
	Vapor Pressure (vs. Air or mm	No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1):	No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~1 mg/ml in acetonitrile, MeOH; EtOH;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperature:					
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weight:	C21H21D9O2 323.5				



Multi-region format

Revision: 04/22/2018

			Section 10. Stability a	nd Reacti	vity			
10.1 Reactivity:			No data available.					
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3 Stability Note(s):		Note(s):	Stable if stored in accordance with information listed on the product insert.					
Polymerization:			Will occur [ ] Will not occur [ X ]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5 Incompatibility - Materials strong oxidizing agents								
	To Avoid							
10.6	Hazardo		carbon dioxide					
	-	osition or	carbon monoxide					
	Byprodu							
			Section 11. Toxicologic					
11.1	Informat		The toxicological effects of this produc	t have not beer	n thoroughly st	tudied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1577	75-74-3	Pregn-4-ene-3,20	-dione-2,2,4,6,6,17,21,21,21-d9	n.a.	n.a.	n.a.	n.a.	
1577	75-74-3	Pregn-4-ene-3,20	-dione-2,2,4,6,6,17,21,21,21-d9 Section 12. Ecologica			n.a.	n.a.	
1577 <b>12.1</b>	75-74-3 Toxicity:					n.a.	n.a.	
			Section 12. Ecologica	I Informat	ion	n.a.	n.a.	
			Section 12. Ecologica Avoid release into the environment.	I Informat	ion	n.a.	n.a.	
12.1	Toxicity:	nce and	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate	I Informat	ion	n.a.	n.a.	
12.1	Toxicity: Persiste	nce and bility:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate	I Informat	ion	n.a.	n.a.	
12.1 12.2	Toxicity: Persister Degrada	nce and bility: mulative	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2	Toxicity: Persister Degrada Bioaccur	nce and bility: mulative I:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2 12.3	Toxicity: Persister Degrada Bioaccur Potentia Mobility	nce and bility: mulative I: in Soil:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4	Toxicity: Persister Degrada Bioaccur Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available.	I Informat	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available.	I Informat	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB hent: Iverse effects:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C	I Informat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB hent: Iverse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat	I Informat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpor	I Informat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpor	I Informat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpor	I Informat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazaro	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpor	I Informat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazaro N/NA Num	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpor	I Informat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A U	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazaro N/NA Num	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: r:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpor DOT): Not dangerous goods.	I Informat	ion ollution. ions egulations.	n.a.	n.a.	

1	
Cayman	

AIR TRANSPORT (ICAO/IATA): 14.3 ICAO/IATA Shipping Name:

Not dangerous goods.

**Additional Transport** 

Transport in accordance with local, state, and federal regulations.

Information:

# Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
15775-74-3 Pregn-4-ene-3,20		)-dione-2,2,4,6,6,17,21,21,21-d9	No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or S	State Lists		
15775-74-3	Pregn-4-ene-3,20-dione-2,2,4,6,6,17,21,21,21-d9		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accor No.1272/2008.	dance with 29 CFR <sup>2</sup>	1910.1200 and Regu	ation (EC)	
Section 16. Other Information						
Revision Date:		04/22/2018				
Additional Info	rmation 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.				