

Page: 1 of 5

		Identification of the Cubetanes // listure and of the				
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking			
.1	Product Code: 20949					
	Product Name:	.betaAmyrin				
	Synonyms:	(3.beta.)-olean-12-en-3-ol; (+)betaAmyrin; NS				
.2	2 Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses: For research use only, not for human or veterinary 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	mber:				
	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		ation			
2.1	Classification of the Subs Acute Toxicity: Oral, Ca	stance or Mixture:	ation			
2.1 2.2		stance or Mixture:	ation			
	Acute Toxicity: Oral, Ca	stance or Mixture: stegory 4 Warning	ation			
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases:	stance or Mixture: stegory 4 Warning ed.	ation			
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe	ed. es:	ation			
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases	stance or Mixture: Itegory 4 Warning ed. Is: oughly after handling.				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallows GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW	ed. ed. ed. es: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if y				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallows GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispo	ed. ed. ed. es: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if y				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallows GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispo	ed. warning warning ed. s: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if y sal Phrases:				
2.2	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispon Please refer to Section 7	warning Warning ed. s: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if y sal Phrases: for Storage and Section 13 for Disposal information.	/ou feel unwell.			
2.2	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallows GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	Marning Warning ed. es: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if y sal Phrases: for Storage and Section 13 for Disposal information. Harmful if swallowed. Material may be irritating to the mucous membranes May be harmful by inhalation or skin absorption.	/ou feel unwell. s and upper respiratory tract.			
2.2	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallows GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	warning Warning ed. ed. es: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if y psal Phrases: for Storage and Section 13 for Disposal information. Harmful if swallowed. Material may be irritating to the mucous membranes	/ou feel unwell. s and upper respiratory tract.			



Revision: 03/06/2017

CAS	s#/ Haz	zardous Comp	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE		ACH Registra	. , , , , , , , , , , , , , , , , , , ,		EC Index No.			
559-70-6 olean-12-en-3.beta NA		In-12-en-3.beta	ol	100.0 %	209-204-6 NA	Acute Tox.(O) 4: H302		
	·		Section 4. Fi	rst Aid Meas	ures			
4.1	Description	of First Aid						
	Measures:							
	In Case of I	nhalation:	Remove to fresh air. If not br Get immediate medical atten		al respiration or giv	ve oxygen by trained personnel		
	In Case of S	Skin Contact:	Immediately wash skin with s clothing. Get medical attentic			5 minutes. Remove contaminate		
	In Case of E	Eye Contact:	Hold eyelids apart and flush	eyes with plenty of	-	5 minutes. Have eyes examine		
			and tested by medical persor		NI			
	In Case of I	ngestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	-	-	ng unless directed to do so by		
			•	e Fighting Measures				
ـــــــــــــــــــــــــــــــــــــ	Suitable Ex	tinguishing	Use alcohol-resistant foam, o			spray.		
	Media:		Use water spray to cool fire-exposed containers.					
	Unsuitable	Unsuitable Extinguishing A solid water stream may be inefficient.						
	Media:							
5.2	Flammable Hazards:	Properties an	d No data available.					
			No data available.					
	Flash Pt:		No data.					
	Explosive L	imits:	LEL: No data.	UEL: No c	lata.			
	Autoignition Pt: No data.							
5.3	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approve equivalent), and full protective gear to prevent contact with skin and eyes.					· · ·		
			Section 6. Accider	ntal Release	Measures			
6.1 Protective Precautions, Avoid raising and breathing dust,				dust, and provide a	dequate ventilation	n.		
	Protective E	Equipment and	d As conditions warrant, wear	a NIOSH approved	I self-contained bre	eathing apparatus, or respirator		
	Emergency	Procedures:	and appropriate personal pr	otection (rubber boo	ots, safety goggles	, and heavy rubber gloves).		
6.2	 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.							
	Containmer Up:	nt and Cleanin	ngTransfer to a chemical wast	e container for disp	osal in accordance	with local regulations.		
			Section 7. Har	ndling and St	torage			
	Precautions	s To Be Taken	Avoid breathing dust/fume/ga	as/mist/vapours/spr	ay.			
7.1			Avoid breathing dustriane/gas/mis/vapours/spray. Avoid prolonged or repeated exposure.					
7.1	minanaing							
	-		Keep container tightly closed	I.				
7.1 7.2	-		Keep container tightly closed Store in accordance with info		ne product insert.			



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3.2 Exp 3.2.1 Eng (Ver 3.2.2 Per Eye Pro Oth Res (Sp Wol ce F 0.1 Infol Phy App pH: Mel Boi Flas Eva Flas Eva Flas Eva Flas Spe	entilation etc.): levels rsonal protection equipment e Protection: Safet otective Gloves: Comp ner Protective Clothing:Lab of spiratory Equipment NIOS pecify Type): ork/Hygienic/Maintenan Do no Practices: Facilit Wash No da Sectio ormation on Basic Physical a spical States: pearance and Odor:	ty glasses patible chemical-resistant gloves coat SH approved respirator, as conditions warrant. Not take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety show h thoroughly after handling. lata available. On 9. Physical and Chemical Properties
8.2.1 Eng (Ve 8.2.2 Per Eye Pro Oth Res (Sp Wo ce f 0.1 Info Phy Apr pH: Mel Boi Flas Eva Flas Eva Flas Eva Flas Spe	gineering Controls Use pentilation etc.): levels rsonal protection equipment Protection: Safet otective Gloves: Comp ner Protective Clothing:Lab of spiratory Equipment NIOS becify Type): brk/Hygienic/Maintenan Do no Practices: Facili Wash No da Sectio brmation on Basic Physical a spical States: pearance and Odor: : Iting Point: iling Point: sh Pt: aporation Rate:	s below recommended exposure limits.
(Vel 3.2.2 Per Eye Pro Oth Res (Sp Wo ce F 	entilation etc.): levels rsonal protection equipment e Protection: Safet otective Gloves: Comp ner Protective Clothing:Lab o spiratory Equipment NIOS pecify Type): ork/Hygienic/Maintenan Do no Practices: Facili Wash No da Sectio ormation on Basic Physical a spical States: pearance and Odor: : Iting Point: iling Point: sh Pt: aporation Rate:	s below recommended exposure limits.
3.2.2 Per Eye Pro Oth Res (Sp Wo ce F .1 Info Phy App pH: Mel Boi Flas Eva Flan Exp Vap Hg) Vap	rsonal protection equipment e Protection: Safet otective Gloves: Comp ner Protective Clothing: Lab of spiratory Equipment NIOS becify Type): ork/Hygienic/Maintenan Do no Practices: Facili Wash No da Section ormation on Basic Physical a sysical States: pearance and Odor: : Iting Point: iling Point: sh Pt: aporation Rate:	t: ty glasses upatible chemical-resistant gloves coat SH approved respirator, as conditions warrant. internally. uot take internally. internal should be equipped with an eyewash and a safety show h thoroughly after handling. lata available. on 9. Physical and Chemical Properties and Chemical Properties []Gas []Liquid []Gas []Liquid [X]Solid A crystalline solid No data. No data. No data. No data. No data.
Eye Pro Oth Res (Sp Wo ce I 	e Protection: Safet ptective Gloves: Comp ner Protective Clothing: Lab of spiratory Equipment NIOS pecify Type): prk/Hygienic/Maintenan Do no Practices: Facili Wash No da Section ormation on Basic Physical a ysical States: pearance and Odor: : Iting Point: iling Point: sh Pt: aporation Rate:	ty glasses patible chemical-resistant gloves coat SH approved respirator, as conditions warrant. not take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety show h thoroughly after handling. lata available. On 9. Physical and Chemical Properties and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data. No data. No data. No data.
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Boi Flas Flai Flai Vap Vap Vap Spe	iling Point: sh Pt: aporation Rate:	No data. No data. No data.
Flas Eva Flai Exp Vap Hg) Vap Spe	sh Pt: aporation Rate:	No data. No data.
Eva Flai Exp Vap Hg) Vap Spe	aporation Rate:	No data.
Flaı Exp Vap Hg) Vap Spe	-	
Exp Vap Hg) Vap Spe	mmability (solid, gas):	No data available
Vap Hg) Vap Spe		No dala available.
Hg) Vap Spe	plosive Limits:	LEL: No data. UEL: No data.
Vap Spe	por Pressure (vs. Air or mm	No data.
Spe):	
•	por Density (vs. Air = 1):	No data.
0.1	ecific Gravity (Water = 1):	No data.
501	lubility in Water:	No data.
Sol	lubility Notes:	~0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2); ~1 mg/ml in EtOH; ~3 mg/ml in DMF
Oct	tanol/Water Partition	No data.
Coe	efficient:	
Aut	toignition Pt:	No data.
Dec	composition Temperature:	No data.
Vis	cosity:	No data.
.2 Othe	er Information	
Per	rcent Volatile:	No data.
Mol	lecular Formula & Weight:	C30H50O 426.7

Multi-region format



Multi-region format

Revision: 03/06/2017

			Section 10. Stability and		5		
10.1	Reactivi	ty:	No data available.				
10.2	Stability	:	Unstable [] Stable [X]				
10.3 Stability Note(s): Polymerization:		Note(s):	Stable if stored in accordance with information listed on the product insert.				
		ization:	Will occur [] Will not occur [X]				
10.4		ns To Avoid:	No data available.				
10.5	•	-	strong oxidizing agents				
To Avoid:							
10.6	Hazardous		carbon dioxide				
	=	osition or	carbon monoxide				
	Byprodu						
			Section 11. Toxicological				
11.1	Informat		The toxicological effects of this product ha	ave not beei	n thoroughly st	udied.	
	Toxicolo	gical Effects:					
CAS #	#	Hazardous Com	Hazardous Components (Chemical Name)			ACGIH	OSHA
559-70-6 olean-12-en-3.bet							
	9-70-6	olean-12-en-3.be	taol	n.a.	n.a.	n.a.	n.a.
	9-70-6	olean-12-en-3.be	taol Section 12. Ecological I			n.a.	n.a.
12.1	9-70-6 Toxicity:	<u> </u>				n.a.	n.a.
12.1		<u> </u>	Section 12. Ecological I	nformat	ion	n.a.	n.a.
12.1		<u>.</u>	Section 12. Ecological I Avoid release into the environment.	nformat	ion	n.a.	n.a.
	Toxicity	nce and	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n	nformat	ion	n.a.	n.a.
	Toxicity: Persiste	nce and bility:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n	nformat	ion	n.a.	n.a.
12.2	Toxicity: Persiste Degrada	nce and bility: mulative	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available.	nformat	ion	n.a.	n.a.
12.2	Toxicity: Persiste Degrada Bioaccu	nce and bility: mulative I:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available.	nformat	ion	n.a.	n.a.
12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available.	nformat	ion	n.a.	n.a.
12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available.	nformat	ion	n.a.	n.a.
12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available.	nformat	ion	n.a.	n.a.
12.2 12.3 12.4 12.5	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available.	nformat	ion ollution.	n.a.	n.a.
12.2 12.3 12.4 12.5	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor	nformat	ion ollution.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB hent: Iverse effects:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB hent: Iverse effects:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, a Section 14. Transport I	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, a Section 14. Transport I	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	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 I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, a Section 14. Transport I	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	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 I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, a Section 14. Transport I DOT): Not dangerous goods.	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	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 I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, a Section 14. Transport I DOT): Not dangerous goods.	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1 AI	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	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:	Section 12. Ecological I Avoid release into the environment. Runoff from fire control or dilution water n No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, a Section 14. Transport I DOT): Not dangerous goods.	nformat nay cause p nsiderat	ion ollution. ions egulations.	n.a.	n.a.

_	
Cayman	

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

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

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
559-70-6	olean-12-en-3.betaol		No	No	No		
CAS #	Hazardous Components (Chemical Name)		Other US EPA o	r State Lists	-		
559-70-6	olean-12-en-3.betaol		CAA HAP,ODC: PROP.65: No	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory In Statement:	formation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)		
		Section 16. Ot	her Information	on			
Revision Date:		03/06/2017					
Additional Info	ormation About	No data available.					
This Product:							
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