

	Revision:	05/17/2018
Supersedes	Revision:	06/12/2013

	Section 1 Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking		
			le company/ondertaking		
1	Product Code: 16681 Product Name: Unoprostone isopropyl ester				
			Unoprostone isopropyl ester		
	Synonyms:	9.alpha.,11.alphadihydroxy-13,14-dihydro-15	-		
		isopropyl ester; 13,14-dihydro-15-keto-20-ethy Rescula;	1 Prostagiandin F2.aipna. Isopropyl ester;		
2		he substance or mixture and uses advised ag			
	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		
1	Emergency telephone numb				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300		
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887		
		Section 2. Hazards Identification	ation		
1	Classification of the Substar	nce or Mixture:			
Flammable Liquids, Category 2					
	Acute Toxicity: Oral, Category 4				
	Serious Eye Damage/Eye Irritation, Category 2A				
	Serious Eve Damage/Eve I				
		rritation, Category 2A			
	Toxic To Reproduction, Ca	rritation, Category 2A ategory 1B			
2	Toxic To Reproduction, Ca Specific Target Organ Tox	rritation, Category 2A			
2	Toxic To Reproduction, Ca	rritation, Category 2A ategory 1B			
2	Toxic To Reproduction, Ca Specific Target Organ Tox	rritation, Category 2A ategory 1B			
2	Toxic To Reproduction, Ca Specific Target Organ Tox	rritation, Category 2A ategory 1B			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements:	rritation, Category 2A ategory 1B icity (single exposure), Category 3			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word:	rritation, Category 2A ategory 1B			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases:	rritation, Category 2A ategory 1B icity (single exposure), Category 3 Danger			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu	rritation, Category 2A ategory 1B icity (single exposure), Category 3 Danger id and vapor.			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu H302: Harmful if swallowed.	rritation, Category 2A ategory 1B icity (single exposure), Category 3 Danger id and vapor.			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu H302: Harmful if swallowed. H316: Causes mild skin irrita	rritation, Category 2A ategory 1B icity (single exposure), Category 3 Danger id and vapor.			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye ir	rritation, Category 2A ategory 1B icity (single exposure), Category 3 Danger id and vapor. ation. rritation.			
2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye ir H360: May damage fertility of	rritation, Category 2A ategory 1B icity (single exposure), Category 3 Danger id and vapor. ation. ritation. or the unborn child.			
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2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye ir H360: May damage fertility of H360: May damage fertility of H360: May cause drowsines EUH066: Repeated exposur GHS Precaution Phrases: P210: Keep away from {heat	rritation, Category 2A ategory 1B icity (single exposure), Category 3 Danger id and vapor. ation. ritation. or the unborn child. as or dizziness. e may cause skin dryness or cracking.			
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Revision: 05/17/2018 Supersedes Revision: 06/12/2013

	GHS Response Phrase	S:				
	P303+361+353: IF ON S	KIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with				
	water/shower.					
	P301+312: IF SWALLOV	VED: Call a POISON CENTER or doctor/physician if you feel unwell.				
	P330: Rinse mouth.					
	P305+351+338: IF IN EY	ES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy				
	to do. Continue rinsing.					
	P337+313: If eye irritatio	n persists, get medical advice/attention.				
	P308+313: IF exposed o	r concerned: Get medical attention/advice.				
	P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.					
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
	GHS Storage and Disposal Phrases:					
	Please refer to Section 7 for Storage and Section 13 for Disposal information.					
2.3	Adverse Human Health	Causes serious eye irritation.				
	Effects and Symptoms:	Material may be irritating to the mucous membranes and upper respiratory tract.				
	May be harmful by inhalation, ingestion, or skin absorption.					
		May cause adverse reproductive effects in males and/or females.				
		May cause drowsiness or dizziness.				
		May cause gastrointestinal disturbances.				
		May cause skin or respiratory system irritation.				
		May damage fertility or the unborn child.				
		May stimulate contraction of intestinal and reproductive smooth muscle.				
		Repeated exposure may cause skin dryness or cracking.				
		This chemical has the potential to induce premature labor or abortion.				
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.				
	Sec	tion 3. Composition/Information on Ingredients				

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
120373-24-2 MJ9670937	Unoprostone isopropyl ester	1.0 %	NA NA	Acute Tox.(O) 4: H302 Toxic Repro. 1B: H360
79-20-9 Al9100000	Methyl acetate	99.0 %	201-185-2 607-021-00-X	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 H336 EUH066

Multi-region format



Revision: 05/17/2018 Supersedes Revision: 06/12/2013

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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.
		Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated
		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 20 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an
		unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
4.2	Important Symptoms and	Stepsoure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea,
	Effects, Both Acute and	shivering, vomiting.
	Delayed:	Exposure may cause: coughing, drowsiness, narcosis, optic nerve atrophy, chest tightness.
		Section 5. Fire Fighting Measures
لـــــ	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
5.1	Suitable Extinguishing Media:	Use of water spray when fire fighting may be inefficient.
		A solid water stream may be inefficient.
	Media:	A solid water stream may be memolent.
5.2		dCan release vapors that form explosive mixtures at temperatures at or above the flash point.
0.2	Hazards:	Container explosion may occur under fire conditions.
	nuzurdo.	Emits toxic fumes under fire conditions.
		Flammable liquid.
		Vapors can travel to a source of ignition and flash back.
		No data available.
	Flash Pt:	-10.00 C Method Used: Closed Cup
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C
	Autoignition Pt:	455.00 C
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or
		equivalent), and full protective gear to prevent contact with skin and eyes.
		Note: Flammable as diluted in methyl acetate.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
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Revision: 05/17/2018 Supersedes Revision: 06/12/2013

	HEMICAL			Supersedes H	Revision: 06/12/2013
			Section 7. Handl	ing and Storage	
7.1	Precautions To Be Taken	Avoid	breathing dust/fume/gas/m	nist/vapours/spray.	
in Handling: Av			Avoid prolonged or repeated exposure.		
		Keep	away from sources of igniti	ion.	
		Take	precautionary measures ag	gainst static discharge.	
7.2	Precautions To Be Taken	-		nd flame.	
	in Storing:	-	container tightly closed.		
				ation listed on the product insert.	
	Other Precautions:	Protec	ct from moisture.		
	Sec	tion 8	3. Exposure Cont	trols/Personal Protection	
8.1	Exposure Parameters:				
CAS #	# Chemical Name		Jurisdiction	Recommended Exposure Limits	Notations
79-20	-9 Methyl acetate		ACGIH TLV	TLV: 200 ppm STEL: 250 ppm	
			France VL	TWA: 610 mg/m3 (200 ppm) STEL: 760 mg/m3 (250 ppm)	
			OSHA PELs	PEL: 8H TWA:200 ppm (610 mg/m3)	
			Britain EH40	TWA: 616 mg/m3 (200 ppm) STEL: 770 mg/m3 (250 ppm)	
8.2	Exposure Controls:				
8.2.1	Engineering Controls	Use p	rocess enclosures, local ex	xhaust ventilation, or other engineering contro	Is to control airborne
	(Ventilation etc.):	levels	below recommended expo	osure limits.	
8.2.2	Personal protection equi	pment:			
	Eye Protection:	Safety	/ glasses		
	Protective Gloves:	Comp	atible chemical-resistant gl	loves	
	Other Protective Clothing	g:Lab co	pat		
	Respiratory Equipment	NIOSI	H approved respirator, as c	conditions warrant.	
	(Specify Type):				
	Work/Hygienic/Maintenar		-		
	ce Practices:			material should be equipped with an eyewash	facility and a safety
		showe			
			thoroughly after handling. ta available.		
		no ua			

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Revision: 05/17/2018 Supersedes Revision: 06/12/2013

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.1	Se	ection 9. Physical and Chemical Properties
	Information on Basic Phys	sical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A solution in methyl acetate
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	-10.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C
	Vapor Pressure (vs. Air or Hg):	r mm 173 MM_HG at 20.0 C
	Vapor Density (vs. Air = 1)): No data.
	Specific Gravity (Water =	1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	455.00 C
	Decomposition Temperate	ure: No data.
	Viscosity:	No data.
).2	Other Information	
	Percent Volatile:	No data.
	Molecular Formula & Weig	ght: C25H44O5 424.6
		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.2	Stability:	Unstable [] Stable [X]
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
	Polymerization:	Will occur [] Will not occur [X]
10.4	Conditions To Avoid:	heat, flames, and sparks
0.5	Incompatibility - Materials	
0.5	To Avoid:	alkalis
		nitrates
		strong oxidizing agents
	Hazardous	carbon dioxide
10.6	Decomposition or	carbon monoxide
10.6	2000 inprovinent en	nitrogen oxides



Revision: 05/17/2018 Supersedes Revision: 06/12/2013

Toxicological Effects: Methyl Acetate - Toxicity Data: Oral LD50 (ray): >5,000 mg/kg; Oral LD50 (ray): 15,000 mg/mg; Oral LD50 (ray): 15,000 mg/mg; Oral LD50 (ray): 15,000 mg/mg; Oral LD50 (ray): 100 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m	CHIMICAL				S	upersedes Revis	ion: 06/12/2013	
Toxicological Effects: Methyl Acetate - Toxicity Data: Oral LD50 (ray): >5,000 mg/kg; Oral LD50 (ray): 15,000 mg/mg; Oral LD50 (ray): 15,000 mg/mg; Oral LD50 (ray): 15,000 mg/mg; Oral LD50 (ray): 100 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m			Section 11. Toxicolog	ical Informa	ition			
arcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No 2AS # Hazardous Components (Chemical Name) NTP IARC ACGIH QSHA 120373-24-2 Unoprostone isopropyl ester n.a.	Toxicol	logical Effects: c Toxicological	 Methyl Acetate - Toxicity Data: Oral mg/kg; Skin LD50 (rabbit): >5,000 m Methyl Acetate - Irritation Data: Skin moderate; Unoprostone isopropyl ester - Toxic (rat): 93,500 μg/kg; Only select Registry of Toxic Effects See actual entry in RTECS for comp Methyl Acetate RTECS Number: All 	LD50 (rat): >5,000 ng/kg; Inhalation T n (rabbit): 500 mg (ity Data: Subcutan s of Chemical Subs plete information. 9100000) mg/kg; Oral CLO (human) (24h) mild; Ey neous LD50 (r stances (RTE	LD50 (rabbit): : 15,000 mg/m es (rabbit): 100 at): 1 g/kg; Intr	3;) mg (24h) avenous LD50	
AS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 120373-24-2 Unoprostone isopropyl ester n.a. N.S. SC Masses consume t	Carcinogenici	tv:						
T9:20-9 Methyl acetate n.a. n.	CAS #	-			-	ACGIH	OSHA	
Section 12. Ecological Information 2.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 2.2 Persistence and No data available. Degradability: Degradability: 2.3 Bioaccumulative No data available. Potential: 2.4 Mobility in Soil: No data available. 2.5 Results of PBT and vPvB No data available. Section 13. Disposal Considerations 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 4.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Methyl acetate DOT Hazard Class: 3 FLAMMABLE LIQUID UNNA Number: 1231 Packing Group: II ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II Hazard Class: 3 - FLAMMABLE LIQUID	120373-24-2	Unoprostone iso	opropyl ester	n.a.	n.a.	n.a.	n.a.	
2.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 2.2 Persistence and Degradability: No data available. 2.3 Bioaccumulative Potential: No data available. 2.4 Mobility in Soil: No data available. 2.5 Results of PBT and vPvB No data available. 2.6 Other adverse effects: No data available. 2.1 LAND TRANSPORT (US DOT): Dot Hazard Class: 3 2.1 LAND TRANSPORT (European ADR/RID	79-20-9	Methyl acetate	· · · ·	n.a.	n.a.	n.a.	n.a.	
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Potential: 2.4 Mobility in Soil: No data available. 2.5 Results of PBT and vPvB No data available. assessment: 2.6 Other adverse effects: No data available. 2.7 Other adverse effects: No data available. 2.8 Section 13. Disposal Considerations 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 4.1 LAND TRANSPORT (US DOT): ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II Hazard Class: 3 - FLAMMABLE LIQUID	Degrad	lability:						
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2.6 Other adverse effects: No data available. Section 13. Disposal Considerations 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information Information Automatic Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information Informatin	12.5 Results	s of PBT and vPv	of PBT and vPvB No data available.					
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3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 4.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Methyl acetate DOT Hazard Class: 3 FLAMMABLE LIQUID UN/NA Number: 1231 Packing Group: II 4.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II	12.6 Other a	dverse effects:	No data available.					
Section 14. Transport Information 4.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Methyl acetate DOT Hazard Class: 3 FLAMMABLE LIQUID UN/NA Number: 1231 Packing Group: II Addition of the second sec			Section 13. Disposal	Considerati	ons			
14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Methyl acetate DOT Hazard Class: 3 FLAMMABLE LIQUID UN/NA Number: 1231 Packing Group: II II Image: Comparison of the state of the	13.1 Waste	Disposal Method	Dispose in accordance with local, st	ate, and federal re	gulations.			
DOT Proper Shipping Name:Methyl acetateDOT Hazard Class:3FLAMMABLE LIQUIDUN/NA Number:1231Packing Group:IIImage: State Sta			Section 14. Transp	ort Informati	on			
DOT Hazard Class: 3 FLAMMABLE LIQUID UN/NA Number: 1231 Packing Group: II VN/NA Number: 1231 Packing Group: II VA.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II Hazard Class: 3 - FLAMMABLE LIQUID	14.1 LAND	TRANSPORT (US	DOT):					
UN/NA Number:1231Packing Group:III ADR/RID TRANSPORT (Europes ADR/RID):ADR/RID Shipping Name:Methyl acetateUN Number:1231Packing Group:IIHazard Class:3 - FLAMMABLE LIQUID	DOT Prop	er Shipping Nam	e: Methyl acetate					
4.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II Hazard Class: 3 - FLAMMABLE LIQUID	DOT Haza	rd Class:	3 FLAMMABLE I	IQUID				
44.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Methyl acetate UN Number: 1231 Packing Group: II Hazard Class: 3 - FLAMMABLE LIQUID	UN/NA Nu	imber:	1231	Packing Grou	p:	II		
Multi-region fo	ADR/RID S UN Numbe	Shipping Name: er:	ropean ADR/RID): Methyl acetate 1231	Packing Grou	p:	II		
5						Ν	Iulti-region form	



Revision: 05/17/2018 Supersedes Revision: 06/12/2013

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Methyl acetate				
UN Number:	1231	Packing Group:	II		
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3		
Additional Transport	Transport in accordance with loca	al, state, and federal regulations.			
Information:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of				
	E1, E2, E4, or E5, this item meets	s the De Minimis Quantities exemp	tion, per IATA 2.6.10.		
	Therefore packaging does not ha	ve to be labeled as Dangerous Go	ods/Excepted Quantity.		

Section 15. Regulatory Information

•	-	ments and Reauthorization Act		0.001.00	0.040 (75)	
CAS #	Hazardous Components (Chemical Name) S. 302 (EHS)		· · ·	S. 304 RQ	S. 313 (TRI)	
120373-24-2	Unoprostone isopropyl ester		No	No	No	
79-20-9	Methyl acetate		No	No	No	
CAS #	Hazardous Con	nponents (Chemical Name)	Other US EPA or State Lists			
120373-24-2	Unoprostone iso	propyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
79-20-9	Methyl acetate			No; CWA NPDES: No; TSCA: Yes - IR; CA PROP.65: No		
Regulatory Information Statement:		This SDS was prepared in acc	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		No.1272/2008.				
		Section 16. Ot	her Informatio	on		
Revision Date:	:	05/17/2018				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec use. Users should make their of their particular purposes.	ver, we make no wa t to such informatior	rranty of merchanta n, and we assume r	ability or any other warrant no liability resulting from its	