

Revision: 03/03/2018

Supersedes Revision: 05/15/2014 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 10005428 **JWH 133 Product Name:** Synonyms: 3-(1,1-dimethylbutyl)-6aR,7,10,10aR-tetrahydro-6,6,9-trimethyl-6H-dibenzo[b,d]pyran; 1.2 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. 1.3 Details of the Supplier of the Safety Data Sheet: **Company Name:** Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Web site address: Information: Cayman Chemical Company +1 (734)971-3335 1.4 **Emergency telephone number: Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification **Classification of the Substance or Mixture:** 2.1 Flammable Liquids, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Specific Target Organ Toxicity (single exposure), Category 3 2.2 Label Elements: **GHS Signal Word:** Danger **GHS Hazard Phrases:** H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H336: May cause drowsiness or dizziness. EUH066: Repeated exposure may cause skin dryness or cracking. **GHS Precaution Phrases:** P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking. P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority. P264: Wash hands thoroughly after handling. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. **GHS Response Phrases:** P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313: If eye irritation persists, get medical advice/attention. 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:**



Revision: 03/03/2018 Supersedes Revision: 05/15/2014

 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 skin or respiratory system irritation.

 Repeated exposure may cause skin dryness or cracking.
 Vapors may cause drowsiness and dizziness.

 To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
259869-55-1 NA	JWH 133	1.0 %	NA NA	No data available.
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

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 15 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 15 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.
- Important Symptoms and Exposure may cause: coughing, dizziness, drowsiness, headache, narcosis, optic nerve atrophy,
 Effects, Both Acute and chest tightness.
 Delayed:

		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 Extinguishin	g A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties a	ndCan release vapors that form explosive mixtures at temperatures at or above the flash point.
	Hazards:	Container explosion may occur under fire conditions.
		Emits toxic fumes under fire conditions.
		Sensitive to static discharge.
		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

Multi-region format



Revision: 03/03/2018 Supersedes Revision: 05/15/2014

5.3	Fire Fighting Instructions	· As in any	/ fire wear self-containe	ed breathing apparatus pressure-demand (NIOSH	
0.0	The Fighting instructions			ear to prevent contact with skin and eyes.	
			ammable as diluted in m		
				-	
		Sectio	n 6. Accidenta	I Release Measures	
6.1	Protective Precautions,		• · ·	vide adequate ventilation.	
	Protective Equipment and			IOSH approved self-contained breathing apparatu	
	Emergency Procedures:	and app	ropriate personal protec	tion (rubber boots, safety goggles, and heavy rubb	per gloves).
6.2	Environmental	Take ste	eps to avoid release into	the environment, if safe to do so.	
	Precautions:				
6.3	Methods and Material Fo			-	
	Containment and Cleanir	ng Transfer	to a chemical waste co	ntainer for disposal in accordance with local regula	ations.
	Up:				
		Se	ection 7. Handl	ing and Storage	
7.1	Precautions To Be Taken	Avoid bre	eathing dust/fume/gas/m	nist/vapours/spray.	
	in Handling:	Avoid pro	olonged or repeated exp	oosure.	
		Keep aw	ay from sources of igniti	ion.	
		Take pre	cautionary measures ag	gainst static discharge.	
7.2	Precautions To Be Taken	Keep aw	ay from heat, sparks, ar	nd flame.	
	in Storing:	-	ntainer tightly closed.		
				ation listed on the product insert.	
	Other Precautions:	Protect f	rom moisture.		
	Sec	tion 8.	Exposure Cont	trols/Personal Protection	
8.1	Exposure Parameters:				
CAS #	# Chemical Name	J	urisdiction	Recommended Exposure Limits	Notations
79-20 [.]	-9 Methyl acetate	A	CGIH TLV	TLV: 200 ppm	
				STEL: 250 ppm	
		+	rance VL	TWA: 610 mg/m3 (200 ppm) STEL: 760 mg/m3 (250 ppm)	
			SHA PELs	PEL: 200 ppm	
			ritain EH40	TWA: 616 mg/m3 (200 ppm)	
				STEL: 770 mg/m3 (250 ppm)	
8.2	Exposure Controls:				
8.2.1	Engineering Controls	Use proc	ess enclosures, local ex	xhaust ventilation, or other engineering controls to	control airborne
	(Ventilation etc.):	levels be	low recommended expo	osure limits.	
8.2.2	Personal protection equi	pment:			
	Eye Protection:	Safety gl	asses		
	Protective Gloves:	Compatil	ble chemical-resistant gl	loves	
	Other Protective Clothing	g:Lab coat			
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.			
	(Specify Type):				
	Work/Hygienic/Maintenar	n Do not ta	ake internally.		
	ce Practices:	Facilities	storing or utilizing this r	naterial should be equipped with an eyewash and	a safety shower
		Wash the	proughly after handling.		
		No data	available.		
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Section 9. Physical and Chemical Properties Physical States: []Gas [] 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 etayaporation Rate: No data. Flash Pt: -10.00 C etayaporation Rate: No data. Flash Pt: -10.00 C etayaporation Rate: No data. Flammability (solid, gas): No data. Paramotic Links: LE:: Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. Octanol/Water Partition No data. Octanol/Water Partition No data. Viscosity: No data. Viscosity: No data. Viscosity: No data. Viscosity: No data. 20 Other Information Percent Volatile: No data. 21 Stability: 22 Stabili	ayman	Supersedes Revision: 05/15/201
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Multi-region format

Revision: 03/03/2018 Supersedes Revision: 05/15/2014

Carcinoge CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Ott 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	Hazardous Com	The toxicological effects of this pro Methyl Acetate - Toxicity Data: Ora Skin LD50 (rabbit): >5,000 mg/kg; I Methyl Acetate - Irritation Data: Ski moderate; Only select Registry of Toxic Effect See actual entry in RTECS for com Methyl Acetate RTECS Number: A NTP? No IARC Monographs? IPPONENTS (Chemical Name) Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. Section 13. Disposal Dispose in accordance with local, s	al LD50 (rat): >5,00 Inhalation TCLO (f in (rabbit): 500 mg ts of Chemical Sub nplete information. I9100000 No OSHA Ro NTP n.a. n.a. n.a. ical Informat t. water may cause p	00 mg/kg; Oral human): 15,000 (24h) mild; Ey ostances (RTE) egulated? No IARC n.a. n.a. ion	LD50 (rabbit): 0 mg/m3; es (rabbit): 100	0 mg (24h)
Chi Effi Carcinoge CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	aronic Toxicological fects: enicity: Hazardous Com 55-1 JWH 133 9 Methyl acetate xicity: rsistence and gradability: baccumulative tential: obility in Soil: sults of PBT and vPvB sessment: her adverse effects:	Skin LD50 (rabbit): >5,000 mg/kg; I Methyl Acetate - Irritation Data: Ski moderate; Only select Registry of Toxic Effect See actual entry in RTECS for com Methyl Acetate RTECS Number: A NTP? No IARC Monographs? IARC Monographs? Inponents (Chemical Name) Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	Inhalation TCLO (h in (rabbit): 500 mg ts of Chemical Sub nplete information. 19100000 No OSHA Ro NTP n.a. n.a. cal Informat	numan): 15,000 (24h) mild; Ey ostances (RTE) egulated? No IARC n.a. n.a.	0 mg/m3; res (rabbit): 100 CS) data is pre ACGIH n.a.	0 mg (24h) esented here OSHA n.a.
Eff Carcinoge CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res ass 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	fects: enicity: Hazardous Com 5-1 JWH 133 9 Methyl acetate xicity: rsistence and gradability: baccumulative tential: bbility in Soil: esults of PBT and vPvB sessment: her adverse effects:	Methyl Acetate - Irritation Data: Ski moderate; Only select Registry of Toxic Effect See actual entry in RTECS for com Methyl Acetate RTECS Number: A NTP? No IARC Monographs? Iponents (Chemical Name) Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. Section 13. Disposal	in (rabbit): 500 mg ts of Chemical Sub 19100000 No OSHA Ro NTP n.a. cal Informat	(24h) mild; Ey ostances (RTE) egulated? No IARC n.a. n.a. iON	res (rabbit): 100 CS) data is pre ACGIH n.a.	OSHA n.a.
Eff Carcinoge CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	fects: enicity: Hazardous Com 5-1 JWH 133 9 Methyl acetate xicity: rsistence and gradability: baccumulative tential: bbility in Soil: esults of PBT and vPvB sessment: her adverse effects:	moderate; Only select Registry of Toxic Effect See actual entry in RTECS for com Methyl Acetate RTECS Number: A NTP? No IARC Monographs? Iponents (Chemical Name) Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	ts of Chemical Sub nplete information. 19100000 No OSHA Ro n.a. n.a. ical Informat	egulated? No IARC n.a. n.a. ion	CS) data is pre	OSHA n.a.
Eff Carcinoge CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	fects: enicity: Hazardous Com 5-1 JWH 133 9 Methyl acetate xicity: rsistence and gradability: baccumulative tential: bbility in Soil: esults of PBT and vPvB sessment: her adverse effects:	Only select Registry of Toxic Effect See actual entry in RTECS for com Methyl Acetate RTECS Number: A NTP? No IARC Monographs? ponents (Chemical Name) Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	nplete information. I9100000 No OSHA Ro n.a. n.a. ical Informat water may cause p	egulated? No IARC n.a. n.a. ion	ACGIH n.a.	OSHA n.a.
Eff Carcinoge CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	fects: enicity: Hazardous Com 5-1 JWH 133 9 Methyl acetate xicity: rsistence and gradability: baccumulative tential: bbility in Soil: esults of PBT and vPvB sessment: her adverse effects:	See actual entry in RTECS for com Methyl Acetate RTECS Number: A NTP? No IARC Monographs? Inponents (Chemical Name) Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	nplete information. I9100000 No OSHA Ro n.a. n.a. ical Informat water may cause p	egulated? No IARC n.a. n.a. ion	ACGIH n.a.	OSHA n.a.
Carcinoge CAS # 259869-5 79-20-9 12.1 Too 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res ass 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	enicity: Hazardous Com 55-1 JWH 133 9 Methyl acetate xicity: rsistence and gradability: baccumulative tential: bbility in Soil: sults of PBT and vPvB sessment: her adverse effects:	Methyl Acetate RTECS Number: A NTP? No IARC Monographs? IARC MONOGRAPS? IARC MONOG	No OSHA Ro No OSHA Ro n.a. n.a. ical Informat	IARC n.a. n.a.	n.a.	n.a.
CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	Hazardous Com 55-1 JWH 133 9 Methyl acetate xicity:	NTP? No IARC Monographs? ponents (Chemical Name) Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	No OSHA Ro NTP n.a. n.a.	IARC n.a. n.a.	n.a.	n.a.
CAS # 259869-5 79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	Hazardous Com 55-1 JWH 133 9 Methyl acetate xicity:	Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. Section 13. Disposal	NTP n.a. n.a.	IARC n.a. n.a.	n.a.	n.a.
259869-5 79-20-9 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	55-1 JWH 133 9 Methyl acetate xicity:	Section 12. Ecologi Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	n.a. n.a.	n.a. n.a.	n.a.	n.a.
79-20-5 12.1 Tox 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	9 Methyl acetate xicity: rsistence and gradability: baccumulative tential: bbility in Soil: sults of PBT and vPvB sessment: her adverse effects:	Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	n.a. cal Informat	n.a.		
12.1 To: 12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	xicity: rsistence and gradability: paccumulative tential: pbility in Soil: sults of PBT and vPvB sessment: her adverse effects:	Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	ical Informat	ion		
12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res ass 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	rsistence and gradability: baccumulative tential: bbility in Soil: sults of PBT and vPvB sessment: her adverse effects:	Avoid release into the environment Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	water may cause p	ollution.		
12.2 Per Deg 12.3 Bio Pot 12.4 Mo 12.5 Res ass 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	rsistence and gradability: baccumulative tential: bbility in Soil: sults of PBT and vPvB sessment: her adverse effects:	Runoff from fire control or dilution v No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	water may cause p			
Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	egradability: baccumulative tential: bbility in Soil: esults of PBT and vPvB sessment: her adverse effects:	No data available. No data available. No data available. No data available. No data available. Section 13. Disposal				
Deg 12.3 Bio Pot 12.4 Mo 12.5 Res 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	egradability: baccumulative tential: bbility in Soil: esults of PBT and vPvB sessment: her adverse effects:	No data available. No data available. No data available. No data available. Section 13. Disposal	I Considerat	ions		
12.3 Bio Pot 12.4 Mo 12.5 Res ass 12.6 Oth 13.1 Wa 14.1 LA DOT F DOT F	baccumulative tential: obility in Soil: osults of PBT and vPvB sessment: her adverse effects:	No data available. No data available. No data available. Section 13. Disposal	I Considerat	ions		
Poi 12.4 Mo 12.5 Res ass 12.6 Oth 13.1 Wa 13.1 Wa 14.1 LA DOT F DOT F	tential: obility in Soil: sults of PBT and vPvB sessment: her adverse effects:	No data available. No data available. No data available. Section 13. Disposal	I Considerat	ions		
12.4 Mo 12.5 Res ass 12.6 Oth 13.1 Wa 14.1 LA DOT F DOT F	obility in Soil: sults of PBT and vPvB sessment: her adverse effects:	No data available. No data available. Section 13. Disposal	l Considerat	ions		
12.5 Res ass 12.6 Oth 13.1 Wa 14.1 LA DOT F DOT F	sults of PBT and vPvB sessment: her adverse effects:	No data available. No data available. Section 13. Disposal	l Considerat	ions		
ass 12.6 Oth 13.1 Wa 14.1 LA DOT F DOT F	sessment: her adverse effects:	No data available. Section 13. Disposal	l Considerat	ions		
12.6 Oth 13.1 Wa 14.1 LA DOT F DOT F	her adverse effects:	Section 13. Disposal	l Considerat	ions		
13.1 Wa 14.1 LA DOT F DOT F		Section 13. Disposal	l Considerat	ions		
14.1 LA DOT F DOT F	aste Disposal Method:	· · · · ·	l Considerat	ions		
14.1 LA DOT F DOT F	aste Disposal Method:	Dispose in accordance with local				
DOT F DOT F		-				
DOT F DOT F		Section 14. Transp	ort Informat	tion		
DOT H	AND TRANSPORT (US	DOT):				
	Proper Shipping Name	: Methyl Acetate Solution				
/ /	Hazard Class:	3 FLAMMABLE	LIQUID			
UN/NA	A Number:	1231	Packing Grou	ıp:	II	
14.1 LA	AND TRANSPORT (Eur	opean ADR/RID):				
	RID Shipping Name:	Methyl Acetate Solution				
	umber:	1231	Packing Grou		II	
	rd Class:	3 - FLAMMABLE LIQUID	. acting crot	- F		
nazar						



Revision: 03/03/2018 Supersedes Revision: 05/15/2014

14.3 AIR TRANSPORT (ICAO/IATA):

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

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
259869-55-1 JWH 133		<u> </u>	No	No	No	
79-20-9	Methyl acetate		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists	1	
259869-55-1	69-55-1 JWH 133		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
79-20-9	Methyl acetate			No; CWA NPDES IR; CA PROP.65:		
Regulatory Inf Statement:	ormation	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:		03/03/2018				
Additional Info This Product:	ormation About	No data available.				
Company Poli	cy or Disclaimer:	DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their	ver, we make no wa t to such informatior	rranty of merchanta n, and we assume r	bility or any other warranty to liability resulting from its	