

Revision: 08/21/2018 Supersedes Revision: 02/25/2015

	Secti	ion 1. Ide	ntification of the Substar	nce/Mixture and of	the Company/U	ndertaking		
.1	Product Code:		9000059					
	Product Name:		(±)-Jasmonic Acid methy	/l ester				
	Synonyms:		3-oxo-2-(2-penten-1-yl)-	cyclopentaneacetic a	neacetic acid, methyl ester; (±)-Methyl Jasmonate;			
.2	Relevant identified	uses of th	e substance or mixture a	and uses advised a	gainst:			
	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 Comp			bany				
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web site address	:	www.caymanchem.com					
	Information:		Cayman Chemical Comp	bany	+1 (734)971-3335			
.4	Emergency telepho		r:					
	Emergency Conta	act:	CHEMTREC Within USA			+1 (800)424-9300		
			CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887		
			Section 2. Ha	zards Identifie	cation			
.1	Classification of the	e Substan	ce or Mixture:					
.2	Label Elements:							
	GHS Signal Word	l:	None					
	-							
	GHS Hazard Phra	ases:	Hono					
	GHS Hazard Phra Based on evaluation			stance or mixture is	not classifiable ad	cording to GHS.		
	Based on evaluation	on of curre	ntly available data this sub	stance or mixture is	not classifiable ad	ccording to GHS.		
	Based on evaluation	on of currer Phrases:		stance or mixture is	not classifiable ad	ccording to GHS.		
	Based on evaluation I GHS Precaution I No phrases apply.	on of currer Phrases:		stance or mixture is	not classifiable ad	ccording to GHS.		
	Based on evaluation GHS Precaution I No phrases apply. GHS Response P	on of currer Phrases: Phrases:		stance or mixture is	not classifiable ad	ecording to GHS.		
	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply.	on of currer Phrases: Phrases:	ntly available data this sub	stance or mixture is	not classifiable ad	ccording to GHS.		
	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and	on of currer Phrases: Phrases: I Disposal	ntly available data this sub			ecording to GHS.		
- 3	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Sec	on of currer Phrases: Phrases: d Disposal ction 7 for S	ntly available data this sub Phrases: Storage and Section 13 for	r Disposal informatio	n.			
2.3	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Sec Adverse Human He	on of currer Phrases: Phrases: Disposal ction 7 for S ealth Ma	ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t	r Disposal informatio the mucous membra	n. nes and upper res	-		
3	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Sec	on of curren Phrases: Phrases: Disposal ction 7 for S ealth Ma coms: Ma	ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior	r Disposal informatio the mucous membra n, ingestion, or skin a	n. nes and upper res bsorption.	-		
.3	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Sec Adverse Human He	on of curren Phrases: Phrases: d Disposal ction 7 for S ealth Ma coms: Ma	ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior ay cause eye, skin, or resp	r Disposal informatio the mucous membra n, ingestion, or skin a biratory system irritat	n. nes and upper res bsorption. on.	spiratory tract.		
3	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Sec Adverse Human He	on of curren Phrases: Phrases: d Disposal ction 7 for S ealth Ma coms: Ma To	ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior ay cause eye, skin, or resp the best of our knowledge	r Disposal informatio the mucous membra n, ingestion, or skin a biratory system irritat e, the toxicological pr	n. nes and upper res bsorption. on. roperties have no	spiratory tract. t been thoroughly investigated		
2.3	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Sec Adverse Human He Effects and Sympt	on of curren Phrases: Phrases: d Disposal ction 7 for S ealth Ma coms: Ma To Sectior	htly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to the ay be harmful by inhalation ay cause eye, skin, or resp the best of our knowledge an 3. Composition	r Disposal informatio the mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological po n/Information	n. hes and upper res bsorption. on. roperties have no on Ingredie	spiratory tract. t been thoroughly investigated nts		
CAS	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Sec Adverse Human He Effects and Sympt	on of curren Phrases: Phrases: Disposal ction 7 for S ealth Ma coms: Ma To Sectior s Compone	Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalation ay cause eye, skin, or resp the best of our knowledge a 3. Composition ents (Chemical Name)/	r Disposal informatio the mucous membra n, ingestion, or skin a biratory system irritat e, the toxicological pr	n. nes and upper res bsorption. on. roperties have no On Ingredie EC No./	spiratory tract. t been thoroughly investigated		
CAS	Based on evaluation GHS Precaution I No phrases apply. GHS Response P No phrases apply. GHS Storage and Please refer to Set Adverse Human He Effects and Sympt	on of curren Phrases: Phrases: d Disposal ction 7 for S ealth Ma coms: Ma To Section s Compone egistration	Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalation ay cause eye, skin, or resp the best of our knowledge a 3. Composition ents (Chemical Name)/	r Disposal informatio the mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological po n/Information	n. hes and upper res bsorption. on. roperties have no on Ingredie	spiratory tract. t been thoroughly investigated nts		



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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 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.				
		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 an	dNo data available.				
	Hazards:					
		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 approved or equivalent), and full protective gear to prevent contact with skin and eyes.				
		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		r Contain spill and collect, as appropriate.				
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:					
		Section 7. Handling and Storage				
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taker	Keep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Sec	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					

Multi-region format



8.2	Exposure Controls:						
8.2.1	Engineering Controls Use	e process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.): leve	s below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection: Saf	ty glasses					
	Protective Gloves: Cor	atible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
		H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
		ities storing or utilizing this material should be equipped with an eyewash facility and a safety					
	sho	ver.					
	Wa	sh thoroughly after handling.					
	No	data available.					
	Sect	ion 9. Physical and Chemical Properties					
9.1	Information on Basic Physical						
	Physical States:	[]Gas [X]Liquid []Solid					
	Appearance and Odor:	A neat oil					
	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 mn	n No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~3 mg/ml in PBS (pH 7.2); ~30 mg/ml in EtOH; ~15 mg/ml in DMSO; ~25 mg/ml in DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature:	No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weight:	C13H20O3 224.3					

Multi-region format



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			Sect	on 10. Stability and	d Reacti	vity			
10.1	.1 Reactivity: No data available.								
10.2	Stability	:	Unstable [] Stable [X]						
10.3									
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	-		No data ava	ilable.					
10.5	Incompa	tibility - Materials	s strong oxidi	zing agents					
	To Avoi	d:							
10.6	10.6 Hazardous		carbon dioxide						
	Decomposition or		carbon monoxide						
	Byprodu	icts:							
			Sectio	n 11. Toxicologica	l Informa	ation			
11.1	Informat	ion on	The toxicolo	gical effects of this product h	ave not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:							
Carcir	nogenicity	/:	NTP? No	IARC Monographs? No	OSHA Re	egulated? No			
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
3992	24-52-2	Methyl 3-oxo-2-(p	pent-2-enyl) c	yclopentaneacetate	n.a.	n.a.	n.a.	n.a.	
		1	Sect	ion 12. Ecological	Informat	ion	ł	ł	
12.1	Toxicity			se into the environment.		-			
	lexiency		Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data available.						
	Degrada	bility:							
12.3		mulative	No data available.						
_	Potentia	l:							
12.4	Mobility	in Soil:	No data available.						
12.5	-								
12.5 Results of PBT and vPvB No data available. assessment:									
12.6		lverse effects:	No data available.						
	Section 13. Disposal Considerations								
13.1	Waste D	isposal Method:		accordance with local, state, a					
	Section 14. Transport Information								
14.1		RANSPORT (US			internat				
		r Shipping Name	-	gerous goods.					
	OT Hazar		. Not dai	igerous goods.					
	N/NA Nun								
14.1		RANSPORT (Euro	onean ADR/I	י(טוצ).					
		hipping Name:	-	igerous goods.					
	N Numbe			.90.040 90040.					
н	azard Cla	ss:							



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

e: 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)		
39924-52-2	Methyl 3-oxo-2-(p	pent-2-enyl) cyclopentaneacetate	No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists	•		
39924-52-2	Methyl 3-oxo-2-(p	pent-2-enyl) cyclopentaneacetate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
		No.1272/2008.					
		Section 16. Oth	er Information	ר			
Revision Date:		08/21/2018					
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.					