

		0 11 1	ding to Regulation (EC) No. 190									
		Section 1. Id	entification of the Substar	nce/Mixture and of	the Company/U	ndertaking						
.1	Product C	Code:	22657									
	Product N	lame:	10-PAHSA 13C4									
.2	Relevant identified uses of the substance or mixture and uses advised against:											
	Relevan	t identified uses:	For research use only, no	ot for human or vete	erinary use.							
.3	Details of the Supplier of the Safety Data Sheet:											
	Company Name: Cayman Chemical Con			bany								
			1180 E. Ellsworth Rd.									
	Web site	e address:	Ann Arbor, MI 48108 www.caymanchem.com									
	Informat		Cayman Chemical Comp	anv	+1 (73	4)971-3335						
.4		cy telephone numb										
	-	ncy Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300						
			CHEMTREC Outside US)3)527-3887						
			Section 2. Ha	zarda Idantifi		·						
	01				cation							
2.1 2.2	Label Elei	ntion of the Substan	nce or mixture:									
2.2												
	-	gnal Word:	None									
						GHS Hazard Phrases:						
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.											
				stance or mixture is	not classifiable ad	ccording to GHS.						
		ecaution Phrases:		stance or mixture is	not classifiable ac	ccording to GHS.						
	No phra	ecaution Phrases: ses apply.		stance or mixture is	not classifiable ad	ccording to GHS.						
	No phras GHS Re	ecaution Phrases: ses apply. esponse Phrases:		stance or mixture is	not classifiable ad	ccording to GHS.						
	No phra GHS Re No phra	ecaution Phrases: ses apply. esponse Phrases: ses apply.		stance or mixture is	not classifiable ad	ccording to GHS.						
	No phras GHS Re No phras GHS Sto	ecaution Phrases: ses apply. ssponse Phrases: ses apply. orage and Disposa	l Phrases:			ccording to GHS.						
2.3	No phra GHS Re No phra GHS Sto Please r	ecaution Phrases: ses apply. seponse Phrases: ses apply. orage and Disposa	I Phrases: Storage and Section 13 for	Disposal information	on.							
2.3	No phra GHS Re No phra GHS Ste Please r Adverse	ecaution Phrases: ses apply. esponse Phrases: ses apply. orage and Disposa refer to Section 7 for Human Health	l Phrases:	[.] Disposal information he mucous membra	on. anes and upper res							
2.3	No phra GHS Re No phra GHS Ste Please r Adverse	ecaution Phrases: ses apply. seponse Phrases: ses apply. orage and Disposa refer to Section 7 for Human Health M nd Symptoms: M	I Phrases: Storage and Section 13 for laterial may be irritating to t	⁻ Disposal information he mucous membra h, ingestion, or skin	on. anes and upper res absorption.							
2.3	No phra GHS Re No phra GHS Ste Please r Adverse	ecaution Phrases: ses apply. seponse Phrases: ses apply. orage and Disposa refer to Section 7 for Human Health M nd Symptoms: M	I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation	⁻ Disposal information he mucous membra n, ingestion, or skin niratory system irrita	on. anes and upper res absorption. tion.	spiratory tract.						
2.3	No phra GHS Re No phra GHS Ste Please r Adverse	ecaution Phrases: ses apply. ses apply. orage and Disposa refer to Section 7 for Human Health M nd Symptoms: M T	I Phrases: Storage and Section 13 for laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp	Disposal information he mucous membra n, ingestion, or skin niratory system irrita e, the toxicological p	on. anes and upper res absorption. tion. properties have no	spiratory tract. t been thoroughly investiga						
2.3	No phra GHS Re No phra GHS Sto Please r Adverse Effects a	ecaution Phrases: ses apply. sesponse Phrases: ses apply. orage and Disposa refer to Section 7 for Human Health M nd Symptoms: M T Sectio	I Phrases: Storage and Section 13 for laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp o the best of our knowledge	Disposal information he mucous membra n, ingestion, or skin niratory system irrita e, the toxicological p	on. anes and upper res absorption. tion. properties have no	spiratory tract. t been thoroughly investiga						
CAS	No phras GHS Re No phras GHS Sto Please r Adverse Effects an	ecaution Phrases: ses apply. sesponse Phrases: ses apply. orage and Disposa refer to Section 7 for Human Health M nd Symptoms: M T Sectio	I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition	Disposal information he mucous membra in, ingestion, or skin iratory system irrita e, the toxicological p in/ Information	on. anes and upper res absorption. tion. oroperties have nor on Ingredie	spiratory tract. t been thoroughly investiga nts						
CAS	No phra GHS Re No phra GHS Sto Please r Adverse Effects an	ecaution Phrases: ses apply. seponse Phrases: ses apply. orage and Disposa refer to Section 7 for Human Health M nd Symptoms: M T Sectic Hazardous Compo	I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition	Disposal information he mucous membra in, ingestion, or skin iratory system irrita e, the toxicological p in/ Information	on. anes and upper res absorption. tion. oroperties have no on Ingredie EC No./	spiratory tract. t been thoroughly investiga 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 Media:	g A solid water stream may be inefficient.				
5.2	Flammable Properties ar Hazards:	IdNo data available.				
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instruction	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.				
		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, 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 Precautions:	Take steps to avoid release into the environment, if safe to do so.				
6.3	Methods and Material Fo	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	NKeep 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



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and different					
8.2 Exposure Controls:					
8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or	other engineering controls to control airborne				
(Ventilation etc.): levels below recommended exposure limits.					
Personal protection equipment:					
Eye Protection: Safety glasses	ty glasses				
Protective Gloves: Compatible chemical-resistant gloves	patible chemical-resistant gloves				
Other Protective Clothing:Lab coat					
Respiratory Equipment NIOSH approved respirator, as conditions warrant.					
(Specify Type):					
Work/Hygienic/Maintenan Do not take internally.	ot take internally.				
ce Practices: Facilities storing or utilizing this material should be ex	uipped with an eyewash and a safety shower.				
Wash thoroughly after handling.					
No data available.					
Section 9. Physical and Chemical P	roperties				
9.1 Information on Basic Physical and Chemical Properties					
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	o 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.					
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: C30[13C4]H66O4 542.9					

Multi-region format



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Multi-region format

			Section 10. Stability ar	nd Reactiv	vity			
10.1	Reactivit	y:	No data available.				_	
10.2	Stability:		Unstable [] Stable [X]					
10.3 Stability Note(s):			Stable if stored in accordance with info	rmation listed of	on the product	insert.		
	Polymeri	zation:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	=	-	No data available.					
	To Avoid:							
10.6	Hazardous		No data available.					
	Decomposition or							
	Byprodu	CIS:	a					
			Section 11. Toxicologic					
11.1	Informati		The toxicological effects of this product	have not beer	thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	10-PAHSA 13C4		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecological	Informat	ion			
12.1	Toxicity:		Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
12.2 Persistence and								
12.2	Persister	nce and	No data available.					
12.2	Persister Degradal		No data available.					
12.2 12.3		bility:	No data available. No data available.					
	Degradal	bility: nulative						
	Degradal Bioaccur	bility: mulative :						
12.3	Degradal Bioaccur Potential Mobility	bility: mulative : in Soil:	No data available.					
12.3 12.4	Degradal Bioaccur Potential Mobility	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available.					
12.3 12.4	Degradal Bioaccur Potential Mobility Results o assessm	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available.					
12.3 12.4 12.5	Degradal Bioaccur Potential Mobility Results o assessm	bility: mulative : in Soil: of PBT and vPvB ent:	No data available. No data available. No data available.	onsiderat	ions			
12.3 12.4 12.5	Degradal Bioaccur Potential Mobility Results o assessm Other ad	bility: mulative : in Soil: of PBT and vPvB ent:	No data available. No data available. No data available. No data available.					
12.3 12.4 12.5 12.6	Degradal Bioaccur Potential Mobility Results o assessm Other ad	bility: mulative : in Soil: of PBT and vPvB ent: verse effects:	No data available. No data available. No data available. No data available. Section 13. Disposal C	, and federal re	egulations.			
12.3 12.4 12.5 12.6	Degradal Bioaccur Potential Mobility Results o assessm Other ad	bility: mulative : in Soil: of PBT and vPvB ent: verse effects:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TR	bility: mulative : in Soil: of PBT and vPvB eent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TR OT Proper	bility: mulative : in Soil: of PBT and vPvB eent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport DOT): Not dangerous goods.	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TR OT Proper OT Hazard	bility: mulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class: ber:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport DOT): Not dangerous goods.	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TF OT Proper OT Hazaro N/NA Num LAND TF	bility: mulative : in Soil: of PBT and vPvB eent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class: aber: RANSPORT (Euro hipping Name: :	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport DOT): Not dangerous goods.	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TR OT Proper OT Hazaro N/NA Num LAND TR	bility: mulative : in Soil: of PBT and vPvB eent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class: aber: RANSPORT (Euro hipping Name: :	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport DOT): Not dangerous goods.	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TF OT Proper OT Hazaro N/NA Num LAND TF	bility: mulative : in Soil: of PBT and vPvB eent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class: aber: RANSPORT (Euro hipping Name: :	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport DOT): Not dangerous goods.	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TF OT Proper OT Hazaro N/NA Num LAND TF	bility: mulative : in Soil: of PBT and vPvB eent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class: aber: RANSPORT (Euro hipping Name: :	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport DOT): Not dangerous goods.	, and federal re	egulations.			
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TF OT Proper OT Hazaro N/NA Num LAND TF	bility: mulative : in Soil: of PBT and vPvB eent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class: aber: RANSPORT (Euro hipping Name: :	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state Section 14. Transport DOT): Not dangerous goods.	, and federal re	egulations.			

4
Calman
caynan

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)	
NA	10-PAHSA 13C4	,	No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
NA	10-PAHSA 13C4		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Ir Statement:	nformation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and Re	egulation (EC)	
		Section 16. Oth	ner Informatio	n		
Revision Dat	e:	06/15/2017				
Additional In	formation 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.				