

### SAFETY DATA SHEET NAEPA

			ording to Regulation (EC) No. 19	-				
		Section 1. I	dentification of the Substan	nce/Mixture and of	the Company/U	ndertaking		
.1	Product	t Code:	22886					
		t Name:	NAEPA					
	Synony	onyms: N-[2-(phosphonooxy)ethyl]-9Z-octadecenamide;						
.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:							
	Comp	any Name:	Cayman Chemical Com	pany				
			1180 E. Ellsworth Rd.					
	Web s	site address:	Ann Arbor, MI 48108 www.caymanchem.com					
		nation:	Cayman Chemical Com	nany	+1 (73	4)971-3335		
.4		ency telephone num		Juliy	11 (73	4)01 1 0000		
.4	-	gency Contact:	CHEMTREC Within USA	and Canada.	+1 (80	0)424-9300		
	Emery	geney contact.	CHEMTREC Outside US			)3)527-3887		
			Section 2. Ha		•	,		
					Jalion			
2.1 2.2		cation of the Subst lements:	ance or Mixture:					
2.2								
		Signal Word:	None					
	GHS Hazard Phrases:							
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
			-	ostance or mixture is	not classifiable ac	cording to GHS.		
	GHS	Precaution Phrases	-	ostance or mixture is	not classifiable ac	ccording to GHS.		
	<b>GHS</b> I No ph	Precaution Phrases trases apply.	S:	ostance or mixture is	not classifiable ac	cording to GHS.		
	GHS I No ph GHS I	Precaution Phrases arases apply. Response Phrases	S:	ostance or mixture is	not classifiable ac	cording to GHS.		
	GHS I No ph GHS I No ph	Precaution Phrases trases apply. Response Phrases trases apply.	s:	ostance or mixture is	not classifiable ac	cording to GHS.		
	GHS I No ph GHS I No ph GHS S	Precaution Phrases arases apply. Response Phrases arases apply. Storage and Dispos	s: : sal Phrases:			cording to GHS.		
	GHS I No ph GHS I No ph GHS S Please	Precaution Phrases irases apply. Response Phrases irases apply. Storage and Dispos e refer to Section 7 f	s: sal Phrases: or Storage and Section 13 fo	r Disposal information	n.			
2.3	GHS I No ph GHS I No ph GHS S Please Advers	Precaution Phrases arases apply. Response Phrases arases apply. Storage and Dispos e refer to Section 7 f se Human Health	s: sal Phrases: or Storage and Section 13 fo Material may be irritating to	r Disposal information	n. nes and upper res			
2.3	GHS I No ph GHS I No ph GHS S Please Advers	Precaution Phrases irases apply. Response Phrases irases apply. Storage and Dispos e refer to Section 7 f	s: sal Phrases: or Storage and Section 13 fo Material may be irritating to May be harmful by inhalation	r Disposal information the mucous membran n, ingestion, or skin a	n. nes and upper res bsorption.			
2.3	GHS I No ph GHS I No ph GHS S Please Advers	Precaution Phrases arases apply. Response Phrases arases apply. Storage and Dispos e refer to Section 7 f se Human Health	s: sal Phrases: or Storage and Section 13 fo Material may be irritating to May be harmful by inhalation May cause eye, skin, or resp	r Disposal information the mucous membran n, ingestion, or skin a biratory system irritati	n. nes and upper res bsorption. on.			
2.3	GHS I No ph GHS I No ph GHS S Please Advers	Precaution Phrases arases apply. Response Phrases arases apply. Storage and Dispos e refer to Section 7 f se Human Health a and Symptoms:	s: sal Phrases: or Storage and Section 13 fo Material may be irritating to May be harmful by inhalation May cause eye, skin, or resp	r Disposal information the mucous membran n, ingestion, or skin a biratory system irritati e, the toxicological pr	n. nes and upper res bsorption. on. roperties have not	spiratory tract.		
2.3	GHS I No ph GHS I No ph GHS S Please Advers Effects	Precaution Phrases arases apply. Response Phrases arases apply. Storage and Dispos e refer to Section 7 f se Human Health and Symptoms: Section	s: sal Phrases: or Storage and Section 13 fo Material may be irritating to May be harmful by inhalatior May cause eye, skin, or resp To the best of our knowledg ion 3. Composition	r Disposal information the mucous membran n, ingestion, or skin a biratory system irritati e, the toxicological pr	n. nes and upper res bsorption. on. roperties have not	spiratory tract.		
CAS	GHS I No ph GHS I No ph GHS S Please Advers Effects	Precaution Phrases arases apply. Response Phrases arases apply. Storage and Dispos e refer to Section 7 f se Human Health and Symptoms: Section	s: sal Phrases: or Storage and Section 13 fo Material may be irritating to May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledg ion 3. Composition onents (Chemical Name)/	r Disposal information the mucous membran n, ingestion, or skin a biratory system irritati e, the toxicological pr n/Information (	n. hes and upper res bsorption. on. operties have not	spiratory tract. been thoroughly investigated		
CAS	GHS I No ph GHS I No ph GHS S Please Advers Effects	Precaution Phrases arases apply. Response Phrases arases apply. Storage and Dispos e refer to Section 7 f and Symptoms: Section Hazardous Comp	s: sal Phrases: or Storage and Section 13 fo Material may be irritating to May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledg ion 3. Composition onents (Chemical Name)/	r Disposal information the mucous membran n, ingestion, or skin a biratory system irritati e, the toxicological pr n/Information (	n. hes and upper res bsorption. on. roperties have not On Ingredie EC No./	spiratory tract. been thoroughly investigated		

Multi-region format



### SAFETY DATA SHEET NAEPA

Revision: 08/21/2017

		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 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.
		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 Cleanin	ngTransfer 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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Cay	man	NAEPA Revisio	on: 08/21/2017				
8.2	Exposure Controls:						
8.2.1	•	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
		levels below recommended exposure limits.					
3.2.2	Personal protection equipment:						
		Safety glasses					
	-	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
		NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
		Facilities storing or utilizing this material should be equipped with an eyewash and a	a safetv showe				
		Wash thoroughly after handling.					
		No data available.					
	Se	ection 9. Physical and Chemical Properties					
9.1		ical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline 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 data.					
	Vapor Pressure (vs. Air or						
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1						
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble in: DMSO; water;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu						
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ht: C20H40NO5P 405.5					

Multi-region format

# Cayman

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Multi-region format

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			Section 10. Stability an	d Reacti	vity			
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	4 Conditions To Avoid:		No data available.					
10.5	Incompa	tibility - Materials	strong oxidizing agents					
	To Avoid	1:						
0.6 Hazardous		us	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	icts:	nitrogen oxides					
			phosphorous oxides					
			Section 11. Toxicologica	al Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product	have not bee	n thoroughly st	tudied.		
	Toxicolo	gical Effects:						
CAS #	¥	Hazardous Com	ponents (Chemical Name)					
			ponents (chemical Manie)	NTP	IARC	ACGIH	OSHA	
2443	35-25-4	NAEPA		n.a.	IARC n.a.	ACGIH n.a.	n.a.	
2443				n.a.	n.a.			
	35-25-4	NAEPA	Section 12. Ecological	n.a.	n.a.		n.a.	
2443 1 <b>2.1</b>		NAEPA	Section 12. Ecological Avoid release into the environment.	n.a.	n.a.			
12.1	35-25-4 Toxicity:	NAEPA	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	n.a.	n.a.			
	35-25-4 Toxicity: Persiste	NAEPA	Section 12. Ecological Avoid release into the environment.	n.a.	n.a.			
12.1 12.2	35-25-4 Toxicity: Persiste Degrada	NAEPA nce and bility:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available.	n.a.	n.a.			
12.1	35-25-4 Toxicity: Persiste Degrada Bioaccu	NAEPA nce and bility: mulative	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	n.a.	n.a.			
12.1 12.2 12.3	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia	NAEPA nce and bility: mulative I:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	n.a.	n.a.			
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12.1 12.2 12.3 12.4	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	NAEPA nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available.	n.a. Informat	n.a.		_	
12.1 12.2 12.3 12.4 12.5	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	NAEPA nce and bility: mulative l: in Soil: of PBT and vPvB nent:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available.	n.a. Informat	n.a.		_	
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12.1 12.2 12.3 12.4 12.5 12.6	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	NAEPA nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co	n.a. Informat may cause p onsiderat and federal r	n.a. tion pollution.			
12.1 12.2 12.3 12.4 12.5 12.6	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	NAEPA nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. 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	n.a. Informat may cause p onsiderat and federal r	n.a. tion pollution.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D	NAEPA nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. 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	n.a. Informat may cause p onsiderat and federal r	n.a. tion pollution.			
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12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D0	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	NAEPA nce and bility: mulative I: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. 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	n.a. Informat may cause p onsiderat and federal r	n.a. tion pollution.			
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12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 DC UN 14.1	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	NAEPA 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   Avoid release into the environment.   Runoff from fire control or dilution water   No data available.   Dispose in accordance with local, state,   Section 13. Disposal Co   Dispose in accordance with local, state,   Section 14. Transport   DOT):   Not dangerous goods.	n.a. Informat may cause p onsiderat and federal r	n.a. tion pollution.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 DC UT 14.1 AI	35-25-4 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	NAEPA nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: hipping Name:	Section 12. Ecological   Avoid release into the environment.   Runoff from fire control or dilution water   No data available.   Dispose in accordance with local, state,   Section 13. Disposal Co   Dispose in accordance with local, state,   Section 14. Transport   DOT):   Not dangerous goods.	n.a. Informat may cause p onsiderat and federal r	n.a. tion pollution.			

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Cayman	

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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

ne: Not dangerous goods.

Additional Transport Information:

### Section 15. Regulatory Information

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

EPA SARA (Superfund Amendn CAS # Hazardous Com		nonents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
24435-25-4	Hazardous Components (Chemical Name)		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA o	r State Lists		
24435-25-4	NAEPA		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; 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. Ot	her Informatio	on		
Revision Date:		08/21/2017				
Additional Info	ormation 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.				