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			ling to Regulation (EC) No. 190	-				
		Section 1. Ide	entification of the Substan	ice/Mixture and of t	he Company/Ur	ndertaking		
.1	Product Product Synonym	Name:	24038 Acephate O,S-dimethyl ester N-ace	etyl-phosphoramidoth	nioic acid; Orthene	e; RE 12420;		
1.2 Relevant identified uses of the substance or mixture and uses advised against:								
	Releva	Relevant identified uses: For research use only, not for human or veterinary use.						
.3	Details of the Supplier of the Safety Data Sheet:							
	Compa	ny Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any				
	Web sit	e address:	www.caymanchem.com					
	Informa	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335		
.4	Emergen	cy telephone numb	er:					
	Emerge	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887		
			Section 2. Haz	zards Identific	ation			
	GHS H	gnal Word: azard Phrases:	Warning					
		Harmful if swallowed.						
		recaution Phrases:	ably after bandling					
		P264: Wash {hands} thoroughly after handling. GHS Response Phrases:						
	P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth.							
	GHS Storage and Disposal Phrases:							
2.3			Storage and Section 13 for larmful if swallowed.	Disposal information) .			
	Effects a	N N	laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp o the best of our knowledge	or skin absorption. iratory system irritatio	on.	piratory tract. been thoroughly investigated		
		Sectio	n 3. Composition	/Information c	on Ingredie	nts		
			nents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification		
205	60-19-1	Acephate		400.0.04	<u> </u>			
	760000	Acephate		100.0 %	250-241-2 015-079-00-7	Acute Tox.(O) 4: H302		

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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:	a A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	dNo 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, Protective Equipment an	Avoid raising and breathing dust, and provide adequate ventilation. 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.
	Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	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:	
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8.2	Exposure Controls:					
8.2.1		Jse process enclosures, local exhaust ventilation, or other engineering evels below recommended exposure limits.	controls to control airborne			
3.2.2	Personal protection equipr	nent:				
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:	ab coat				
	Respiratory Equipment	NOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	Do not take internally.				
	l.	Facilities storing or utilizing this material should be equipped with an eye Vash thoroughly after handling. No data available.	ewash and a safety showe			
	Se	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	cal 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 data.				
	Vapor Pressure (vs. Air or Hg):	nm No data.				
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1)	: No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	Soluble in: chloroform; DMSO; water;				
	Octanol/Water Partition Coefficient:	No data.				
	Autoignition Pt:	No data.				
	Decomposition Temperatu	re: No data.				
	Viscosity:	No data.				
.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weigl	nt: C4H10NO3PS 183.2				

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			Section 10. Stability a		/		
10.1	Reactivit	ty:	No data available.				
10.2	Stability	:	Unstable [] Stable [X]				
10.3	Stability	Note(s):	Stable if stored in accordance with in	ormation listed o	n the product	insert.	
	Polymer	ization:	Will occur [] Will not occur [X]				
10.4	Conditio	ns To Avoid:	No data available.				
10.5	Incompatibility - Materials strong oxidizing agents						
	To Avoid	1:					
10.6	Hazardo	us	carbon dioxide				
	Decomposition or Byproducts:		carbon monoxide				
			hydrogen sulfide				
			nitrogen oxides phosphorous oxides				
			Section 11. Toxicologi				
11.1	Informat		The toxicological effects of this produ		0.1		//
	Toxicolo	gical Effects:	Acephate - Toxicity Data: Oral LD50		-		/кg;
	Chronic	Toxicological	Intraperitoneal TDLO (rat): 100 mg/kg				ive offector
	Chronic Effects:	Toxicological	Acephate - Investigated as an agricu Only select Registry of Toxic Effects			•	
	Enects:		See actual entry in RTECS for compl				
			Acephate RTECS Number: TB47600				
CAS #	¥	Hazardous Com			IARC	ACGIH	OSHA
	¥ 60-19-1	Hazardous Com Acephate	Acephate RTECS Number: TB47600	00	IARC n.a.	ACGIH n.a.	OSHA n.a.
			Acephate RTECS Number: TB47600	00 NTP n.a.	n.a.		
3056	60-19-1	Acephate	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic	00 NTP n.a.	n.a.		
3056		Acephate	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment.	n.a.	n.a.		
3056 12.1	0-19-1 Toxicity:	Acephate	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	n.a.	n.a.		
3056	0-19-1 Toxicity: Persiste	Acephate	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment.	n.a.	n.a.		
3056 12.1 12.2	0-19-1 Toxicity: Persiste Degrada	Acephate nce and bility:	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available.	n.a.	n.a.		
3056 12.1	0-19-1 Toxicity: Persiste	Acephate nce and bility: mulative	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	n.a.	n.a.		
3056 12.1 12.2 12.3	0-19-1 Toxicity: Persiste Degrada Bioaccu Potentia	Acephate nce and bility: mulative I:	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	n.a.	n.a.		
3056 12.1 12.2 12.3 12.4	0-19-1 Toxicity: Persiste Degrada Bioaccu Potentia Mobility	Acephate nce and bility: mulative I: in Soil:	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available.	n.a.	n.a.		
3056 12.1 12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results	Acephate nce and bility: mulative I: in Soil: of PBT and vPvB	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	n.a.	n.a.		
3056 12.1 12.2 12.3 12.4 12.5	0-19-1 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	Acephate nce and bility: mulative I: in Soil: of PBT and vPvB	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available.	n.a.	n.a.		
3056 12.1 12.2 12.3 12.4 12.5	0-19-1 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	Acephate nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available.	00 NTP n.a. al Information ter may cause po	n.a. ON Ilution.		
3056 12.1 12.2 12.3 12.4	50-19-1 Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	Acephate nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Acephate RTECS Number: TB47600 ponents (Chemical Name) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (DO NTP n.a. al Information ter may cause po Consideration	n.a. ON Ilution.		

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Section 14. Transport Information							
14.1 LAND T	RANSPORT (US	DOT):					
	r Shipping Name	-					
DOT Hazar							
UN/NA Nun	UN/NA Number:						
14.1 LAND TRANSPORT (European ADR/RID):							
	hipping Name:	Not dangerous goods.					
	UN Number:						
Hazard Cla							
	ANSPORT (ICAO/ Shipping Name:	IATA): Not dangerous goods.					
Additional Trar		Transport in accordance with lo	cal state and feder	al regulations			
Information:	isport	Transport in accordance with lo		ai regulations.			
		Section 15. Regul	atory Informa	ation			
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
30560-19-1	Acephate		No	No	Yes		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists			
30560-19-1	Acephate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	lation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	er Informatio	n			
Revision Date:		05/11/2018					
Additional Infor	mation About	No data available.					
This Product:							
Company Polic	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their or their particular purposes.	er, we make no war to such information,	ranty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its		
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