

	ассо	rding to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008				
	Section 1. Ic	dentification of the Substance/Mixture and of the	e Company/Undertaking				
1.1	Product Code: Product Name: Synonyms:	23556 3-Aminopropylphosphonic Acid P-(3-aminopropyl)-phosphonic acid; .betaAminopropylphosphonic Acid; 3-APPA; NSC 133832					
1.2		the substance or mixture and uses advised aga					
	Relevant identified uses:	For research use only, not for human or veterina	ary use.				
1.3	Details of the Supplier of th Company Name: Web site address:	e Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
1.4	Emergency telephone num	ber:					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identifica	tion				
2.2	Label Elements:	xicity (single exposure), Category 3 Warning					
	<ul> <li>GHS Hazard Phrases:</li> <li>H315: Causes skin irritation.</li> <li>H319: Causes serious eye irritation.</li> <li>H335: May cause respiratory irritation.</li> <li>GHS Precaution Phrases:</li> <li>P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.</li> <li>P264: Wash {hands} thoroughly after handling.</li> <li>P280: Wear {protective gloves/protective clothing/eye protection/face protection}.</li> <li>GHS Response Phrases:</li> <li>P302+352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</li> </ul>						
	P332+313: If skin irritation P337+313: If eye irritation   P362+364: Take off contar GHS Storage and Dispos	occurs, get medical advice/attention. persists, get medical advice/attention. ninated clothing and wash it before reuse.					

4	
$\overline{\mathbf{C}}$	
Салтап	
Cayman	

2.3		e Human Health and Symptoms:	Causes serious eye irritation. Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
		Sect	tion 3. Composition	n/Information	on Ingredie	nts			
CAS RTE		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
13138-33-5 NA		3-Aminopropylphosp	phonic Acid	100.0 %	625-723-4 NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336			
		•	Section 4. F	rst Aid Meas	sures	•			
4.1	Descrip	otion of First Aid							
	Measur In Case	res: e of Inhalation:	Remove to fresh air. If not be Get immediate medical atter		ial respiration or gi	ve oxygen by trained personnel			
In Case of Skin Contact:			Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
In Case of Eye Contact: In Case of Ingestion:		e of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examine and tested by medical personnel.						
		e 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 Me	asures				
5.1 Suitable Extinguishing Media:		e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.						
	Unsuitable Extinguishing Media:		g A solid water stream may be inefficient.						
5.2	Flamma Hazard	•	<b>d</b> No data available.						
			No data available.						
	Flash F		No data.						
	-	ive Limits: nition Pt:	LEL: No data. No data.	UEL: No o	Ja(a.				
5.3	-		: As in any fire, wear self-con	tained breathing ap	paratus pressure-d	lemand (NIOSH approved or			
			equivalent), and full protection	ve gear to prevent o	contact with skin ar	nd eyes.			



	Ś	Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment and	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	Methods and Material For	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 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.				
	Secti	on 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
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.				
8.2.2	Personal protection equip	ion equipment:				
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible 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.					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
		Wash thoroughly after handling.				
		No data available.				
	Se	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physi	cal 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	mm No data.				
	Hg):					
	Vapor Density (vs. Air = 1)	No data.				
		Multi-region format				



	Specific Gravity (Wate	er = 1):	No data.							
	Solubility in Water:		No data. ~0.25 mg/ml in a 1:3 solution of EtOH:PBS (pH 7.2); ~30 mg/ml in EtOH; ~2 mg/ml in DMSO; ~5 mg/ml in DMF;							
Solubility Notes:										
	Octanol/Water Partitio	n	No data.							
	Coefficient:									
	Autoignition Pt:		No data.							
	Decomposition Tempe	erature:	No data.							
	Viscosity:		No data.							
9.2	Other Information									
	Percent Volatile:		No data.							
	Molecular Formula & V	Weight:	C3H10NO3P	139.1						
		S	Section 10.	Stability and	Reacti	vity				
10.1	Reactivity:	No da	ta available.							
10.2	Stability:	Unsta	ble [ ] Stab	le [ X ]						
10.3	Stability Note(s):	Stable	e if stored in acco	ordance with informa	tion listed	on the product	insert.			
	Polymerization:	Will o	ccur [ ] Will	not occur [ X ]						
10.4	Conditions To Avoid:	No da	ta available.							
10.5	Incompatibility - Mater	rials strong	oxidizing agents	s						
	To Avoid:									
10.6	Hazardous	carbo	carbon dioxide							
	Decomposition or		n monoxide							
	Byproducts:	-	en oxides							
		phosp	horous oxides							
		Se	ection 11. T	Foxicological	Inform	ation				
11.1	Information on Toxicological Effects:		oxicological effect	ts of this product ha	ve not bee	n thoroughly st	udied.			
CAS	# Hazardous C	omponen	ts (Chemical Na	ame)	NTP	IARC	ACGIH	OSHA		
13138-33-5 3-Aminopropylph							n.a.			
			Section 12.	Ecological Ir	format	tion		•		
12.1	Toxicity:		release into the	-						
			Runoff from fire control or dilution water may cause pollution.							
12.2			No data available.							
	Degradability:									
12.3 Bioaccumulative		No da	ta available.							
	Potential:									
12.4	2.4 Mobility in Soil: No d		data available.							
12.5	,									
	assessment:									
12.6	Other adverse effects:	: No da	ta available.							
-										



Revision: 03/10/2018

		Section 13. Dispos						
<b>13.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.								
		Section 14. Tran	sport Informat	ion				
14.1 LAND T	RANSPORT (US I	DOT):						
DOT Hazar		Not dangerous goods.						
UN/NA Nur								
	-	opean ADR/RID):						
UN Numbe	hipping Name: r:	Not dangerous goods.						
Hazard Cla								
14.3 AIR TR	ANSPORT (ICAO/I	IATA):						
	Shipping Name:	Not dangerous goods.						
Additional Tra	nsport	Transport in accordance with lo	ocal, state, and federa	l regulations.				
Information:								
		Section 15. Regu	latory Information	tion				
EPA SARA (Sı	perfund Amendm	nents and Reauthorization Act	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
13138-33-5	3-Aminopropylph	osphonic Acid	No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name) Other US EPA or State Lists						
13138-33-5	3-Aminopropylph	osphonic Acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.						
		Section 16. Oth	ner Information	า				
Revision Date:		03/10/2018						
Additional Info	rmation About	No data available.						
This Product: Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. However express or implied, with respect use. Users should make their of their particular purposes.	ver, we make no warra to such information, a	anty of merchantab and we assume no	ility or any other warranty liability resulting from its			

Multi-region format