

Cayman			90-11	en Cover Sne		Revision: 08/01/2016 Supersedes Revision: 04/20/2016
		acco	ording to Regulation (EC) No. 190	7/2006 as amended b	oy (EC) No. 1272/200)8
		Section 1. I	dentification of the Substar	ce/Mixture and of	the Company/U	ndertaking
1.1	Product Product		400012 96-Well Cover Sheet			
1.2	Relevan	t identified uses of	the substance or mixture a	nd uses advised a	against:	
	Releva	ant identified uses:	For research use only, no	ot for human or vete	erinary use.	
1.3	Details o	of the Supplier of t	he Safety Data Sheet:			
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
	Web s	ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	any	+1 (73	4)971-3335
1.4	Emerge	ncy telephone num	nber:			
	Emerg	ency Contact:	CHEMTREC Within USA			0)424-9300
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887
			Section 2. Ha	zards Identifi	cation	
2.1		cation of the Subst	ance or Mixture:			
2.2	Label El	ements:				
	GHS F Based GHS F No phr GHS F	Fignal Word: Hazard Phrases: on evaluation of cu Precaution Phrases rases apply. Response Phrases rases apply.		stance or mixture is	not classifiable ac	cording to GHS.
	GHS S	Storage and Dispos	sal Phrases:			
	Please	e refer to Section 7 f	or Storage and Section 13 for	Disposal information	on.	
2.3		e Human Health and Symptoms:	Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge	, ingestion, or skin a iratory system irritat	absorption. tion.	spiratory tract. been thoroughly investigated.
		Secti	on 3. Composition	/Information	on Ingredie	nts
CAS RTE	#/ CS #	Hazardous Comp REACH Registrati	onents (Chemical Name)/ ion No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		96-Well Cover Sheet		100.0 %	NA NA	No data available.



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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 solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	ndNo 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 Emergency Procedures:	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, 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.
		ngTransfer 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		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:	



 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 equipment: Eye Protection: Safety glasses Protective Glorinic: Jab coal Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygieni/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. 94. Work/Hygieni/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. 94. Work/Hygieni/Maintenan Do not take internally. ce Practices: Facilities a full fundio (X) Solid Apparance and Odor: 96-Well Cover Sheet phi: No data. Boiling Point: No data. Boiling Point: No data. Boiling Point: No data. Vapor Density (vs. Air er 1): No data. Specific Gravity (Water = No data. Specific Gravity (Water		HEMICAL	Supersedes Revision: 04/20/2016
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Autoignition Pt: No data. Decomposition Temperature: No data. Viscosity: No data. 9.2 Other Information Percent Volatile: No data. 10.1 Reactivity: No data available. 10.2 Stability: Unstable [] 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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 10.6 Hazardous No data available.			NO data.
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Viscosity: No data. 9.2 Other Information Percent Volatile: No data. 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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. No data available. 10.6 Hazardous No data available.		-	
9.2 Other Information Percent Volatile: No data. Section 10. Stability and Reactivity 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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 10.6 Hazardous No data available.			
Percent Volatile: No data. Section 10. Stability and Reactivity 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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 10.6 Hazardous No data available.		-	No data.
Section 10. Stability and Reactivity 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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 10.6 Hazardous No data available.	9.2		
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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: No data available. 10.6 Hazardous No data available.		Percent Volatile:	No data.
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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: No data available. 10.6 Hazardous No data available.			Section 10. Stability and Reactivity
 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 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 10.6 Hazardous No data available. 	10.1	Reactivity:	No data available.
Polymerization: Will occur [] Will not occur [X] 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: No data available. 10.6 Hazardous No data available.	10.2	Stability:	Unstable [] Stable [X]
10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 10.6 Hazardous No data available.	10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
10.5 Incompatibility - Materials No data available. To Avoid: Incompatibility - Materials No data available. 10.6 Hazardous No data available.		Polymerization:	Will occur [] Will not occur [X]
10.5 Incompatibility - Materials No data available. To Avoid: Incompatibility - Materials No data available. 10.6 Hazardous No data available.	10.4	Conditions To Avoid:	No data available.
To Avoid: 10.6 Hazardous No data available.	10.5		s No data available.
10.6 Hazardous No data available.			
	10.6		No data available.
Multi-region forma			Multi-region forma



Multi-region format

Revision: 08/01/2016 Supersedes Revision: 04/20/2016

	Decomp Byprodi	oosition or					
	,		Section 11. Toxico	ological Info	rmation		
11.1	Informa Toxicolo	tion on ogical Effects:	The toxicological effects of this	•		tudied.	
CAS	#	Hazardous Com	ponents (Chemical Name)	NTF	P IARC	ACGIH	OSHA
	NA	96-Well Cover Sh	neet	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecol	ogical Inform	nation		
12.1	Toxicity		Avoid release into the environr Runoff from fire control or dilut No data available.		use pollution.		
12.2	Degrada	ence and	no data avaliable.				
12.3		imulative	No data available.				
12.4	Mobility	in Soil:	No data available.				
12.5	Results assessr		No data available.				
12.6	Other a	dverse effects:	No data available.				
			Section 13. Dispo	sal Conside	erations		
13.1	Waste D	isposal Method:	Dispose in accordance with loc	al, state, and fed	eral regulations.		
			Section 14. Trar	nsport Inform	nation		
14.1	LAND 1	RANSPORT (US I		•			
		er Shipping Name	-				
	IN/NA Nur						
14.1		RANSPORT (Euro	opean ADR/RID):				
		hipping Name:	Not dangerous goods.				
-	lazard Cla						
14.3	AIR TR	ANSPORT (ICAO/	IATA):				
10		Shipping Name:	Not dangerous goods.				
Addi	tional Tra	nsport	Transport in accordance with I	ocal, state, and fe	deral regulations.		
Infor	mation:						
			Section 15. Regu	latory Infor	mation		
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. 31	3 (TRI)
	NA	96-Well Cover Sh	neet	No	No	No	
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA	or State Lists		
	NA	96-Well Cover Sh	neet	CAA HAP,OD PROP.65: No	C: No; CWA NPD	ES: No; TSCA	No; CA



Page: 5 of 5

Cayman	Supersedes Revision: 04/20/2016			
Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
	Section 16. Other Information			
Revision Date:	08/01/2016			
Additional Information About This Product:	No data available.			
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.			



Revision: 11/22/2016

		accordi	ng to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8
		Section 1. Ide	ntification of the Substar	nce/Mixture and of t	he Company/Ur	ndertaking
1.1	1 Product Code: 400014 Product Name: 96-Well Solid Plate (Colorimetric Assay)					
1.2	Relevan	t identified uses of th	e substance or mixture a	ind uses advised ag	jainst:	
	Releva	Int identified uses:	For research use only, no	ot for human or veter	inary use.	
1.3	Details o	of the Supplier of the	Safety Data Sheet:			
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
		ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ncy telephone numbe ency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887
			Section 2. Haz	zards Identific	ation	
2.1	Classifie	cation of the Substan	ce or Mixture:			
2.2	Label El	ements:				
		ignal Word: Iazard Phrases:	None			
			ntly available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.
	GHS F	Precaution Phrases:	-			-
	No ph	ases apply.				
	GHS F	Response Phrases:				
	No phi	ases apply.				
		Storage and Disposal				
			Storage and Section 13 for	-		
2.3			aterial may be irritating to t ay be harmful by inhalation			piratory tract.
	Effects	, ,	ay cause eye, skin, or resp	U	•	
						been thoroughly investigated.
		Section	n 3. Composition	/Information c	on Ingredie	nts
CAS RTE	; # / CS #	Hazardous Componer REACH Registration	ents (Chemical Name)/ No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		96-Well Solid Plate (Cold	orimetric Assay)	100.0 %	NA NA	No data available.
1						



Revision: 11/22/2016

		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 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,	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	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		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	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:	



Revision: 11/22/2016

	HEMICAL	
8.2	Exposure Controls:	
8.2.1	Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
8.2.2	Personal protection equi	pment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing	
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenar	n 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.
	S	ection 9. Physical and Chemical Properties
		•
9.1	-	sical and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	Plate
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Flammability (solid, gas)	
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air o Hg):	or mm No data.
	Vapor Density (vs. Air = 1	1): No data.
	Specific Gravity (Water =	1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition Coefficient:	No data.
	Autoignition Pt:	No data.
	Decomposition Temperat	ture: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
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	Conditions To Avoid:	No data available.
10.5	Incompatibility - Material	s No data available.
	To Avoid:	
10.6	Hazardous	No data available.
		Multi-region forma



Revision: 11/22/2016

	•	position or					
	Byprod	ucts:					
			Section 11. Toxico	ological Inforn	nation		
11.1	Informa	tion on	The toxicological effects of this	s product have not be	en thoroughly st	udied.	
	Toxicol	ogical Effects:	Effects:				
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	NA	96-Well Solid Pla	ate (Colorimetric Assay)	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecol	ogical Informa	ation		
12.1	Toxicity		Avoid release into the environr	ment.			
			Runoff from fire control or dilut	ion water may cause	pollution.		
12.2	Persiste	ence and	No data available.				
	Degrada	ability:					
12.3	Bioaccu	Imulative	No data available.				
	Potentia	al:					
2.4	Mobility	in Soil:	No data available.				
2.5	Results	of PBT and vPvB	No data available.				
	assessr	ment:					
2.6	Other a	dverse effects:	No data available.				
			Section 13. Dispo	sal Considera	ations		
3.1	Waste D	Disposal Method:	Dispose in accordance with loo	cal, state, and federa	l regulations.		
			Section 14. Trar	nsport Informa	ation		
14.1	LAND 1	RANSPORT (US		•			
D		er Shipping Name	-				
	OT Hazar		0 0				
U	N/NA Nur	mber:					
14.1	LAND T	RANSPORT (Eur	opean ADR/RID):				
Α	DR/RID S	hipping Name:	Not dangerous goods.				
U	N Numbe	er:					
н	azard Cla	ISS:					
14.3	AIR TR	ANSPORT (ICAO/	IATA):				
IC	CAO/IATA	Shipping Name:	Not dangerous goods.				
	ional Tra	nsport	Transport in accordance with	local, state, and fede	ral regulations.		
Infor	nation:						
			Section 15. Regu	ulatory Inform	ation		
EPA	SARA (Sı	uperfund Amendn	nents and Reauthorization Act	t of 1986) Lists			
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	3 (TRI)
	NA	96-Well Solid Pla	ate (Colorimetric Assay)	No	No	No	
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists	4	
	NA	96-Well Solid Pla	ate (Colorimetric Assay)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			



Revision: 11/22/2016

Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
Statement.				
	Section 16. Other Information			
Revision Date:	11/22/2016			
Additional Information About This Product:	No data available.			
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.			



Revision: 05/23/2016

		accordi	ng to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/20	08
		Section 1. Ide	ntification of the Substan	ce/Mixture and of t	he Company/U	ndertaking
1.1	Product Product		400044 480 Well Kit Box			
1.2 Relevant identified uses of the substance or mixture and uses advised against:						
	Releva	Int identified uses:	For research use only, no	ot for human or veteri	inary use.	
1.3	Details o	of the Supplier of the	Safety Data Sheet:			
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
		ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	any	+1 (73	4)971-3335
1.4	-	ncy telephone numbe ency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US)0)424-9300)3)527-3887
			Section 2. Haz	zards Identific	ation	
2.1 2.2	Classific Label El	cation of the Substan ements:	ce or Mixture:			
2.3	Based GHS F No phr GHS F No phr GHS S Please	Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for 3	ntly available data this subs Phrases: Storage and Section 13 for aterial may be irritating to th	Disposal information	1.	
		and Symptoms: Ma Ma	ay be harmful by inhalation ay cause eye, skin, or resp	, ingestion, or skin at iratory system irritatio	osorption.	t been thoroughly investigated.
			n 3. Composition		-	
CAS RTE	# / CS #		ents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		480 Well Kit Box		100.0 %	NA NA	No data available.



Revision: 05/23/2016

		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.
		g A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an	IdNo data available.
	Hazards:	
	Flack Dt.	No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data. No data.
	Autoignition Pt:	
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. 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.
0.2	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		ng Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
	-	
		Section 7. Handling and Storage
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2		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:	



Revision: 05/23/2016

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 equi	pment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing	J:Lab coat					
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenar	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.					
	S	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Phy	sical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	480 Well Kit Box					
	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 o	r mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1	I): No data.					
	Specific Gravity (Water =	1): No data.					
	Solubility in Water:	No data.					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperat	t ure: No data.					
	Viscosity:	No data.					
9.2	Other Information						
-	Percent Volatile:	No data.					
		Section 10. Stability and Reactivity					
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	Conditions To Avoid:	No data available.					
10.4		N. L. YIL					
10.5	Incompatibility - Material	s No data available.					
	Incompatibility - Material To Avoid:	s no data available.					



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Revision: 05/23/2016

Toxicological Effects: MTP IARC ACGIH OSHA NA 480 Well Kit Box n.a. n.a.<			osition or						
The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA NA 480 Well Kit Box In a. n.a.		Byprodu	ucts:						
Toxicological Effects: NTP IARC ACGIH OSHA NA 480 Well Kit Box n.a. N.a. <td></td> <td></td> <td></td> <td>Section 11. Toxico</td> <td>ological Inform</td> <td>nation</td> <td></td> <td></td>				Section 11. Toxico	ological Inform	nation			
CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA NA 480 Weil Kit Box n.a. N.a	11.1	.1 Information on The toxicological effects of this product have not been thoroughly studied.							
NA 480 Well Kit Box n.a. n.a.<		Toxicol	ogical Effects:						
Section 12. Ecological Information Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: Degradability: 12.3 Bioaccumulative No data available. Potential: 12.4 Mobility in Soil: No data available. Section 13. Disposal Considerations 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposa in accordance with local, state, and federal regulations. Image: Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UNNA Number: Hazard Class: UNNA Number: Hazard Class: UNNA Number: Hazard Class: UNNA Number: Hazard Class: Information: Not dangerous goods. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA No No No No No Not dangerous goods. <td col<="" td=""><td>CAS</td><td>#</td><td>Hazardous Com</td><td>ponents (Chemical Name)</td><td>NTP</td><td>IARC</td><td>ACGIH</td><td>OSHA</td></td>	<td>CAS</td> <td>#</td> <td>Hazardous Com</td> <td>ponents (Chemical Name)</td> <td>NTP</td> <td>IARC</td> <td>ACGIH</td> <td>OSHA</td>	CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. Degradability: 12.3 Bioaccumulative No data available. No data available. 12.4 Mobility in Soli: No data available. 12.5 Results of PBT and vPvB No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: 12.7 Moste Disposal Method: Dispose In accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UNNA Number: 14.1 LAND TRANSPORT (ICA0/IATA): ICA0/IATA Shipping Name: Not dangerous goods. UN Number: Hazard Class:		NA 480 Well Kit Box n.a. n.a. n.a. n.a.							
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Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)
Statement:	No.1272/2008.
	Section 16. Other Information
Revision Date:	05/23/2016
Additional Information About	No data available.
This Product:	
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.



Product Name: Acid Phosphatase Assay Buffer (10X) 1.2 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. 1.3 Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbor, MI 48108 1.4 Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: +1 (734)971-3335 1.4 Emergency Contact: CHEMTREC Within USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 Classification of the Substance or Mixture: 2.2 Label Elements: GHS Signal Word: None GHS Response Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Response Phrases: Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May cause eye, skin, or respiratory system irritation. Cadverse Human Health Material may be irritating to the mucou	n: 11/22/2016 n: 04/21/2015	Revision: Supersedes Revision:		ltase Assay Di	Aciu i nospila		man	Caj
1.1 Product Code: 10009146 Product Name: Acid Phosphatase Assay Buffer (10X) 1.2 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. 1.3 Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Information: Cayman Chemical Company (1734)971-3335 1.4 Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 Classification of the Substance or Mixture: 2.2 Label Elements: GHS Signal Word: None GHS Hazard Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Disposal Phrases: May cause eye, skin, or respiratory system irritation. 2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. May cause eye, skin, or respiratory system irritation. 2.3 Adverse Human Health Material may be irritating to the mucous membranes a			oy (EC) No. 1272/200	07/2006 as amended b	ding to Regulation (EC) No. 19	accord		
Product Name: Acid Phosphatase Assay Buffer (10X) 1.2 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. 1.3 Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (734)971-3335 1.4 Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 Classification of the Substance or Mixture: 2.2 Label Elements: GHS Signal Word: None GHS Nagae and Disposal Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Response Phrases: No phrases apply. Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eys, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly		ndertaking	f the Company/Ur	nce/Mixture and of	entification of the Substa	Section 1. Ide		
Relevant identified uses: For research use only, not for human or veterinary use. 1.3 Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company 1.4 Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: +1 (703)971-3335 1.4 Emergency Contact: CHEMTREC Outside USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 Classification of the Substance or Mixture: 2 Label Elements: GHS Signal Word: None GHS Nignal Word: None GHS Negonse Phrases: No phrases apply. GHS Storage and Disposal Phrases: No phrases apply. GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly Section 3. Composition/Information on I				y Buffer (10X)				1.1
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Revision: 11/22/2016 Supersedes Revision: 04/21/2015

		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	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 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.
		ngTransfer 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.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



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(Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal 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 Oo not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly atter handling. No data available. Section 9. Physical and Chemical Properties Physical States: [Ges [X] Liquid [] Solid Appearance and Odor: Solution pH: No data. Boiling Point: No data. If formation Rate: No data. Flash P1: No data. Vapor Pressure (vs. Air or mm No data. Flainmability (solid, gas): No data. Vapor Pressure (vs. Air or mN No data. Specific Gravity (Water = 1): No data. Specific Oravity (Water = 1): No data. Specific Oravity (Water = 1): No data. Specific Oravity (Water = 1): No data. Other Information Rescutive:	8.2	Exposure Controls:	
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9.1 Information on Basic Physical and Chemical Properties Physical States: []Gas [X]Liquid []Solid Appearance and Odor: Solution pH: No data. Metting Point: No data. No data. Boiling Point: No data. Explosition Rate: No data. Flash Pt: No data. Explosive Limits: LEL: No data. Fammability (solid, gas): No data. UEL: No data. Yapor Pressure (vs. Air or mm No data. UEL: No data. Yapor Density (vs. Air = 1): No data. UEL: No data. Solubility in Water = No data. Octanol/Water Parititon No data. Octanol/Water Parititon No data. Octanol/Water Parititon No data. Decomposition Temperature: No data. Viscosity: No data. 9.2 Other Information Percent Volatile: No data. 9.2 Other Information Percent Volatile: No data. 10.1 Reactivity: No data available. Istable[X] 10.2 Stability Note(s): Stable if stored in accordance with information listed on the product insert.			No data available.
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 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 	10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
10.5 Incompatibility - Materials No data available. To Avoid:		Polymerization:	Will occur [] Will not occur [X]
10.5 Incompatibility - Materials No data available. To Avoid:	10.4	Conditions To Avoid:	No data available.
To Avoid:		Incompatibility - Materials	No data available.
10.6 Hazardous No data available.	10.6	Hazardous	No data available.
Multi-region for			Multi-region format



	Revision:	11/22/2016
Supersedes	Revision:	04/21/2015

			Section 11. Toxic	ological Info	rmation		
.1 In	nformati	ion on	The toxicological effects of thi	s product have not	t been thoroug	hly studied.	
Т	oxicolo	gical Effects:					
arcinog	genicity	:	NTP? No IARC Monogra	phs? No OSH	HA Regulated?	No	
CAS #		Hazardous Com	ponents (Chemical Name)	NTF	P IAR	C ACGIH	OSHA
7365-4	5-9	HEPES, free acid		n.a.	n.a.	n.a.	n.a.
7732-1	8-5	Water		n.a.	n.a.	n.a.	n.a.
			Section 12. Eco	logical Infori	mation		
2.1 To	oxicity:		Avoid release into the environ	ment.			
			Runoff from fire control or dilu	tion water may car	use pollution.		
2.2 P	ersister	nce and	No data available.				
D	egrada	bility:					
2.3 B	ioaccur	nulative	No data available.				
P	otential	:					
.4 M	lobility	in Soil:	No data available.				
2.5 R	esults o	of PBT and vPvB	No data available.				
	ssessm						
2.6 O	ther ad	verse effects:	No data available.				
			Section 13. Dispo	osal Conside	erations		
3.1 W	/aste Di	sposal Method:	Dispose in accordance with lo	cal, state, and fed	eral regulation	S.	
			Section 14. Tra	nsport Infori	mation		
4.1 L	AND TH	RANSPORT (US I	ООТ):				
DOT	Proper	Shipping Name:	Not dangerous goods.				
DOT	Hazaro	l Class:					
UN/N	NA Num	ber:					
4.1 L	AND T	RANSPORT (Euro	pean ADR/RID):				
ADR	RID Sh	nipping Name:	Not dangerous goods.				
UNN	Number	:					
Haza	ard Clas	SS:					
		NSPORT (ICAO/I	-				
		Shipping Name:	Not dangerous goods.				
	nal Tran	sport	Transport in accordance with	local, state, and fe	ederal regulation	ns.	
nformat	tion:						
			Section 15. Reg	ulatory Infor	mation		
PA SA	RA (Su	perfund Amendm	ents and Reauthorization Ac	t of 1986) Lists			
		Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 I	RQ S. 31	3 (TRI)
AS #	15-9	HEPES, free acid		No	No	No	
CAS # 7365-4							



SAFETY DATA SHEET

Acid Phosphatase Assay Buffer (10X)

CAS # Hazardous Com		nponents (Chemical Name) Other US EPA or State Lists			
7365-45-9 HEPES, free acid		d .	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7732-18-5 Water			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
Regulatory Information Statement:		This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR 1910.1200 and Regulation (EC)		
		Section 16. Oth	er Information		
Revision Date:		11/22/2016			
Additional Information About This Product:		No data available.			
Company Policy or Disclaimer:		currently available to us. However express or implied, with respect	is believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information for		



	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
		Section 1. Ide	ntification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking	
1.1	Product Product		10009147 Acid Phosphatase Substr	rate			
1.2	Relevan	t identified uses of th	ne substance or mixture a	nd uses advised ag	jainst:		
	Releva	Int identified uses:	For research use only, no	ot for human or veteri	inary use.		
1.3	Details o	of the Supplier of the	Safety Data Sheet:				
	Company Name: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
		te address:	www.caymanchem.com				
	Inform		Cayman Chemical Comp	any	+1 (734	4)971-3335	
1.4	-	ncy telephone numbe ency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887	
			Section 2. Haz	zards Identific	ation		
2.1	.1 Classification of the Substance or Mixture:						
2.2	Label El	ements:					
	GHS H Based GHS P No phr GHS R No phr	ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: ases apply. Response Phrases: ases apply. Storage and Disposal	None ntly available data this subs Phrases:	stance or mixture is r	not classifiable ac	cording to GHS.	
	Please	refer to Section 7 for	Storage and Section 13 for	Disposal information	1.		
2.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
		Section	n 3. Composition,	/Information c	on Ingredie	nts	
CAS # / RTECS #Hazardous Components (Chemical Name)/ REACH Registration No.Concentration EC No./ EC Index No.GHS Classification EC Index No.					GHS Classification		
426 NA	4-83-9	p-Nitrophenyl phosphate	e, disodium salt, hexahydrate	100.0 %	224-246-5 NA	No data available.	



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	HEMICAL	Supersedes Revision: 04/21/2015
	Secti	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:	Lab coat
	Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.
	Work/Hygienic/Maintenan	Do not take internally.
		Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety
		shower.
		Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1		cal and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	White to light yellow tablets
	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):	mm No data.
	Vapor Density (vs. Air = 1):	No data.
	Specific Gravity (Water = 1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition Coefficient:	No data.
	Autoignition Pt:	No data.
	Decomposition Temperatu	re: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.



						S	upersedes Revis	ion: 04/21/2015	
			Secti	on 10. Stability and	Reacti	vity			
10.1	Reactivi	ty:	No data ava	ilable.					
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stor	red in accordance with inform	ation listed	on the product	insert.		
	Polymer		Will occur [] Will not occur [X]						
10.4	-	ons To Avoid:	No data ava						
10.5	Incompa	atibility - Materials	strong acids						
	To Avoid	-	strong bases						
			strong oxidiz						
10.6	Hazardo	us	carbon dioxi	de					
	Decomp	osition or	carbon mon	oxide					
	Byprodu	icts:	nitrogen oxid	des					
			phosphorus	oxides					
			sodium oxid	es					
			Sectio	n 11. Toxicological	Informa	ation			
11.1	Informat		The toxicolo	gical effects of this compound	l have not b	een thoroughly	y studied.		
		ogical Effects:							
Carci	nogenicity	/:	NTP? No	IARC Monographs? No	OSHA Re	egulated? No			
CAS	#	Hazardous Com		-	NTP	IARC	ACGIH	OSHA	
426	4-83-9	p-Nitrophenyl pho	sphate, diso	dium salt, hexahydrate	n.a.	n.a.	n.a.	n.a.	
			Secti	ion 12. Ecological I	nformat	ion			
12.1	Toxicity	:	Avoid releas	se into the environment.					
			Runoff from	fire control or dilution water m	nay cause p	ollution.			
12.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No data ava	ilable.					
	Potentia	l:							
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5	-	of PBT and vPvB	No data ava	ilable.					
-	assessm	nent:							
12.6	Other ad	verse effects:	No data ava	ilable.					
			Soctic	n 12 Disposal Cor		ione			
13.1	Wasto D	isposal Method:		on 13. Disposal Cor					
	Waste D		•	tion 14. Transport I		0			
14.1		RANSPORT (US I	-						
	-	r Shipping Name:	Not dan	gerous goods.					
	OT Hazar								
U	N/NA Nun								
14.1		RANSPORT (Euro	-	-					
Α	DR/RID SI	hipping Name:	Not dan	gerous goods.					
-	N Numbe								
Н	azard Cla	SS:							



Revision: 11/22/2016 Supersedes Revision: 04/21/2015

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

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)		
4264-83-9	p-Nitrophenyl pho hexahydrate	osphate, disodium salt,	No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	Other US EPA or State Lists			
4264-83-9	p-Nitrophenyl pho hexahydrate	osphate, disodium salt,	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Regulatory Inf Statement:	formation	This SDS was prepared in acc No.1272/2008. Section 16. Of			gulation (EC)		
Revision Date	•	11/22/2016		// 1			
Additional Information About No data available.							
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respe- use. Users should make their their particular purposes.	ever, we make no war ct to such information,	ranty of merchantab and we assume no	ility or any other warranty liability resulting from its		



Section 1 I	dentification of the Substance/Mixture and of th	ne Company/Undertaking
Product Code:		ie company, chaortaining
Product Code. Product Name:	10009148 Acid Phosphatase Stop Solution	
	f the substance or mixture and uses advised aga	oinct.
Relevant identified uses of		
	, ,	lary use.
Details of the Supplier of t	he Safety Data Sheet:	
Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
Web site address:	www.caymanchem.com	
Information:	Cayman Chemical Company	+1 (734)971-3335
Emergency telephone num	nber:	
Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
	CHEMTREC Outside USA and Canada:	+1 (703)527-3887
	Section 2. Hazards Identifica	ation
Skin Corrosion/Irritation Label Elements:	ance or Mixture: , Category 1A	
Label Elements:		
Label Elements:	, Category 1A Danger	
Label Elements:	, Category 1A Danger a burns and eye damage.	
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin	, Category 1A Danger a burns and eye damage.	
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases P264: Wash {hands} thoro	, Category 1A Danger a burns and eye damage.	on}.
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases P264: Wash {hands} thoro	, Category 1A Danger a burns and eye damage. S: bughly after handling. by protective clothing/eye protection/face protection	on}.
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases: P301+330+331: IF SWAL	, Category 1A Danger In burns and eye damage. S: Dughly after handling. Doves/protective clothing/eye protection/face protection : LOWED: Rinse mouth. Do NOT induce vomiting.	
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases: P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases: P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower.	, Category 1A Danger a burns and eye damage. S: bughly after handling. bves/protective clothing/eye protection/face protection : LOWED: Rinse mouth. Do NOT induce vomiting. KIN (or hair): Remove/take off immediately all contar	ninated clothing. Rinse skin with
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases: P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases: P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower. P304+340: IF INHALED: F P305+351+338: IF IN EYE	, Category 1A Danger In burns and eye damage. S: Dughly after handling. Doves/protective clothing/eye protection/face protection : LOWED: Rinse mouth. Do NOT induce vomiting.	ninated clothing. Rinse skin with
Label Elements: GHS Signal Word: GHS Nagard Phrases: H314: Causes severe skin GHS Precaution Phrases: P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases: P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower. P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing.	, Category 1A Danger a burns and eye damage. S: bughly after handling. bves/protective clothing/eye protection/face protection LOWED: Rinse mouth. Do NOT induce vomiting. KIN (or hair): Remove/take off immediately all contar Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes.	ninated clothing. Rinse skin with
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower. P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P310: Immediately call a F	, Category 1A Danger a burns and eye damage. s: bughly after handling. bves/protective clothing/eye protection/face protection clowED: Rinse mouth. Do NOT induce vomiting. LOWED: Rinse mouth. Do NOT induce vomiting. (IN (or hair): Remove/take off immediately all contar Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. POISON CENTER or doctor/physician.	ninated clothing. Rinse skin with
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases: P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases: P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower. P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P310: Immediately call a F P363: Wash contaminated	, Category 1A Danger a burns and eye damage. S: bughly after handling. bves/protective clothing/eye protection/face protection LOWED: Rinse mouth. Do NOT induce vomiting. CIN (or hair): Remove/take off immediately all contar Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. POISON CENTER or doctor/physician. d clothing before reuse.	ninated clothing. Rinse skin with
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower. P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P310: Immediately call a F P363: Wash contaminated GHS Storage and Dispose	, Category 1A Danger a burns and eye damage. S: bughly after handling. bves/protective clothing/eye protection/face protection clowED: Rinse mouth. Do NOT induce vomiting. CIN (or hair): Remove/take off immediately all contar Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. POISON CENTER or doctor/physician. d clothing before reuse. Sal Phrases:	ninated clothing. Rinse skin with ition comfortable for breathing. Remove contact lenses, if present and eas
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower. P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P310: Immediately call a F P363: Wash contaminated GHS Storage and Dispose	, Category 1A Danger a burns and eye damage. S: bughly after handling. bves/protective clothing/eye protection/face protection LOWED: Rinse mouth. Do NOT induce vomiting. CIN (or hair): Remove/take off immediately all contar Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. POISON CENTER or doctor/physician. d clothing before reuse.	ninated clothing. Rinse skin with ition comfortable for breathing. Remove contact lenses, if present and eas
Label Elements: GHS Signal Word: GHS Hazard Phrases: H314: Causes severe skin GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P301+330+331: IF SWALD P303+361+353: IF ON SK water/shower. P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P310: Immediately call a F P363: Wash contaminated GHS Storage and Dispose	, Category 1A Danger a burns and eye damage. S: bughly after handling. bves/protective clothing/eye protection/face protection clowED: Rinse mouth. Do NOT induce vomiting. CIN (or hair): Remove/take off immediately all contar Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. POISON CENTER or doctor/physician. d clothing before reuse. Sal Phrases:	ninated clothing. Rinse skin with ition comfortable for breathing. Remove contact lenses, if present and eas



Page: 2 of 6 Revision: 11/22/2016

Effects a CAS # / RTECS # 1310-73-2 WB4900000 7732-18-5 ZC0110000 4.1 Descripti Measure: In Case o In	Hazardous Comp REACH Registrat Sodium hydroxide Water tion of First Aid	ion 3. Composition ponents (Chemical Name)/ ion No. Section 4. Fit Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with so clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get medical	he mucous membrai , ingestion, or skin a iratory system irritati a, the toxicological pr /Information Concentration 8.0 % 92.0 % 92.0 % rst Aid Measu eathing, give artificia tion. oap and plenty of wa n if symptoms occur ayes with plenty of wa inel. rovided person is co	bsorption. on. operties have not on Ingredie EC No./ EC Index No. 215-185-5 011-002-00-6 231-791-2 NA JIES I respiration or giv ater for at least 15 . Wash clothing b ater for at least 15 ater for at least 15 ater for at least 15 . Wash clothing b	t been thoroughly investigated.			
RTECS # I 1310-73-2 S WB4900000 7732-18-5 ZC0110000 X 4.1 Descripti Measure: In Case of In Case of In Case of In Case of In Case of S.1 Suitable Media: Media:	Hazardous Comp REACH Registrat Sodium hydroxide Water tion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact:	ion 3. Composition ponents (Chemical Name)/ ion No. Section 4. Fit Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with so clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get medical	/Information Concentration 8.0 % 92.0 % rst Aid Measu athing, give artifician ion. oap and plenty of wa n if symptoms occur eyes with plenty of wa nel. rovided person is co	On Ingredie EC No./ EC Index No. 215-185-5 011-002-00-6 231-791-2 NA JTES I respiration or given ater for at least 15 . Wash clothing be ater for at least 15 . Wash clothing be . Wash clothin	GHS Classification Skin Corr. 1A: H314 No data available. ve oxygen by trained personne 5 minutes. Remove contaminate efore reuse. 5 minutes. Have eyes examine			
RTECS # I 1310-73-2 S WB4900000 7732-18-5 ZC0110000 X 4.1 Descripti Measure: In Case of In Case of In Case of In Case of In Case of S.1 Suitable Media: Media:	Hazardous Comp REACH Registrat Sodium hydroxide Water tion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact:	Remove to fresh air. If not bre Get immediate medical attento Immediately wash skin with so clothing. Get medical attention Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get medical	Concentration 8.0 % 92.0 % rst Aid Measu ion. oap and plenty of wann if symptoms occur eyes with plenty of wannel. rovided person is co	EC No./ EC Index No. 215-185-5 011-002-00-6 231-791-2 NA JICES I respiration or giv ater for at least 15 . Wash clothing b rater for at least 15 . Wash clothing b	GHS Classification Skin Corr. 1A: H314 No data available. Ve oxygen by trained personne 5 minutes. Remove contaminat efore reuse. 5 minutes. Have eyes examine			
RTECS # I 1310-73-2 S WB4900000 7732-18-5 ZC0110000 X 4.1 Descripti Measure: In Case of In Case of In Case of In Case of In Case of S.1 Suitable Media: Media:	REACH Registrat Sodium hydroxide Water tion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact:	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with si clothing. Get medical attention Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get medical	8.0 % 92.0 % rst Aid Measu rot Rot Aid Measu rot Rot Aid Measu rot Rot Rot Rot Rot Rot Rot Rot Rot Rot R	EC Index No. 215-185-5 011-002-00-6 231-791-2 NA JTES I respiration or given ater for at least 15 . Wash clothing be ater for at least 15 ater for at least 15 . Wash clothing be ater for at least 15 . Wash clothing be . Wash clothing be	Skin Corr. 1A: H314 No data available. Ve oxygen by trained personne 5 minutes. Remove contaminat efore reuse. 5 minutes. Have eyes examine			
WB4900000 7732-18-5 ZC0110000 4.1 Descripti Measure In Case of In Case of In Case of In Case of In	Water tion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact:	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med	92.0 % rst Aid Measu eathing, give artificia tion. oap and plenty of wa n if symptoms occur eyes with plenty of wa nel. rovided person is co	011-002-00-6 231-791-2 NA JIES I respiration or giv ater for at least 15 . Wash clothing b ater for at least 15 ater for at least 15 ater for at least 15	No data available. Ve oxygen by trained personne 5 minutes. Remove contaminat efore reuse. 5 minutes. Have eyes examine			
4.1 Descripti Measure In Case of In Case of In Case of In Case of In Case of	tion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact:	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med	eathing, give artificia ion. oap and plenty of wa n if symptoms occur eyes with plenty of w inel. rovided person is co	NA JIES I respiration or giv ater for at least 15 . Wash clothing b rater for at least 1 nscious. Never gi	ve oxygen by trained personne 5 minutes. Remove contaminat efore reuse. 5 minutes. Have eyes examine			
Measure In Case of In Case of In Case of In Case of S.1 Suitable Media:	es: of Inhalation: of Skin Contact: of Eye Contact:	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med	eathing, give artificia tion. oap and plenty of wa n if symptoms occur eyes with plenty of w inel. rovided person is co	l respiration or giv ater for at least 15 . Wash clothing b ater for at least 19 nscious. Never gi	5 minutes. Remove contaminat efore reuse. 5 minutes. Have eyes examine			
Measure In Case of In Case of In Case of In Case of S.1 Suitable Media:	es: of Inhalation: of Skin Contact: of Eye Contact:	Get immediate medical attent Immediately wash skin with se clothing. Get medical attention Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med	tion. oap and plenty of wa n if symptoms occur eyes with plenty of w nel. rovided person is co	ater for at least 15 . Wash clothing b ater for at least 15 nscious. Never gi	5 minutes. Remove contaminat efore reuse. 5 minutes. Have eyes examine			
In Case of	of Eye Contact:	Immediately wash skin with se clothing. Get medical attention Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med	oap and plenty of wa n if symptoms occur eyes with plenty of w nel. rovided person is co	. Wash clothing b ater for at least 1 nscious. Never gi	efore reuse. 5 minutes. Have eyes examine			
In Case of the second s	-	and tested by medical person Wash out mouth with water p unconscious person. Get med	inel. rovided person is co	nscious. Never gi				
5.1 Suitable Media:	of Ingestion:	unconscious person. Get med	-	-	ive anything by mouth to an			
Media:		modioal poroonnoi.	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.					
Media:		Section 5. Fire	Fighting Mea	asures				
	Extinguishing	Use alcohol-resistant foam, c		r, or dry chemical	spray.			
	ble Extinguishinc	Use water spray to cool fire-e A solid water stream may be	-					
Media:		,						
	-	d No data available.						
Hazards:	:	No data available.						
Flash Pt:	:	No data.						
	ve Limits:	LEL: No data.	UEL: No da	ata.				
Autoigni	ition Pt:	No data.						
5.3 Fire Figh	nting Instructions	As in any fire, wear self-conta equivalent), and full protective	• • • •	-				



		Sect	ion 6. Accidenta	I Release Measures				
6.1	Protective Precautions,	Avoid	breathing vapors and pro	vide adequate ventilation.				
	Protective Equipment an			NOSH approved self-contained				
	Emergency Procedures:			ction (rubber boots, safety gogg	-	er gloves).		
6.2	Environmental	Take	steps to avoid release inte	o the environment, if safe to do	50.			
	Precautions:							
6.3	Methods and Material Fo				an with local regula	tiona		
	Up:	ig rians		ontainer for disposal in accorda				
	ор. 							
	Pressutions To Do Tokor			ling 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 Taker							
1.2	in Storing:	-		ation listed on the product inser	t.			
	-			-				
		tion 8	 Exposure Cor 	trols/Personal Prote	ction			
8.1	Exposure Parameters:		1	1		1		
CAS #			Jurisdiction	Recommended Exposure L	mits	Notations		
1310-	73-2 Sodium hydroxide		ACGIH TLV	CEIL: 2 mg/m3				
			France VL	TWA: 2 mg/m3				
			OSHA PELs Britain EH40	PEL: 2 mg/m3 STEL: 2 mg/m3 ()				
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Use p	rocess enclosures, local e	exhaust ventilation, or other eng	neering controls to	control airborne		
	(Ventilation etc.):	-	below recommended exp	-				
8.2.2		pment:						
	Eye Protection:	Safety	glasses					
	Protective Gloves:	Comp	atible chemical-resistant	ploves				
	Other Protective Clothing	g:Lab co	pat					
	Respiratory Equipment	NIOSI	H approved respirator, as	conditions warrant.				
	(Specify Type):							
	Work/Hygienic/Maintena		-					
	ce Practices:			material should be equipped wi	th an eyewash and	a safety shower.		
			Wash thoroughly after handling. No data available.					
		No da	ta available.					



	CHIMICAL		Supersedes Revision: 04/21/2015
	S	ection 9. Physical and Chemical Properties	S
9.1	Information on Basic Phys	cal and Chemical Properties	
	Physical States:	[]Gas [X]Liquid []Solid	
	Appearance and Odor:	Solution	
	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 o	mm No data.	
	Hg):		
	Vapor Density (vs. Air = 1	No data.	
	Specific Gravity (Water =): No data.	
	Solubility in Water:	No data.	
	Octanol/Water Partition	No data.	
	Coefficient:		
	Autoignition Pt:	No data.	
	Decomposition Temperat		
	Viscosity:	No data.	
9.2	Other Information		
	Percent Volatile:	No data.	
	Molecular Formula & Wei	ht: NaOH 40.0	
		Section 10. Stability and Reactivity	
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 produ	uct insert.
	Polymerization:	Will occur [] Will not occur [X]	
10.4	Conditions To Avoid:	No data available.	
10.5	Incompatibility - Materials	strong acids	
	To Avoid:	strong oxidizing agents	
		organic materials	
10.6	Hazardous	sodium oxides	
	Decomposition or		
	Byproducts:		
			Multi-region forma



			Section 1	1 Tovicologi	cal Informat	ion				
	Informat'	on on		1. Toxicologi			udiad			
11.1	Informati Toxicolog	on on gical Effects:	The toxicological effects of this product have not been thoroughly studied. Sodium Hydroxide - Toxicity Data: Intraperitoneal LD50 (mouse): 40 mg/kg; Oral TDLO (rat): 44 mg/kg;							
	Chronic T Effects:	Foxicological	Sodium Hydroxid	de - Investigated as a stry of Toxic Effects (-	-	-	-		
	Lifects.		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.							
			Sodium Hydroxide RTECS Number: WB4900000							
Carcir	nogenicity	:	NTP? No IA	RC Monographs? N	o OSHA Reg	ulated? No				
CAS #	#	Hazardous Com	ponents (Chemio	cal Name)	NTP	IARC	ACGIH	OSHA		
131	0-73-2	Sodium hydroxide	9		n.a.	n.a.	n.a.	n.a.		
7732-18-5 Water				n.a.	n.a.	n.a.	n.a.			
			Section	12. Ecologica	al Informatic	n n	·	·		
2.1	Toxicity:		Avoid release int	to the environment.						
			Runoff from fire	control or dilution wa	ter may cause poll	ution.				
12.2	Persister	ice and	No data available	э.						
	Degradat	pility:								
12.3	Bioaccur	nulative	No data available	э.						
	Potential	:								
12.4	Mobility i	n Soil:	No data available	е.						
12.5	Results o	of PBT and vPvB	No data availabl	e.						
	assessm	ent:								
12.6	Other adv	verse effects:	No data availabl	е.						
			Section 7	13. Disposal (Consideratic	ons				
13.1	Waste Di	sposal Method:	Dispose in accor	dance with local, sta	te, and federal reg	ulations.				
			Sectior	n 14. Transpo	rt Informatio	n				
14.1	LAND TF	RANSPORT (US I	DOT):							
D	OT Proper	Shipping Name:	Sodium Hyd	roxide Solution						
D	OT Hazard	Class:	8	CORROSIVE						
U	N/NA Num	ber:	1824		Packing Group	:	II			
				•						
	LAND TF	RANSPORT (Euro	opean ADR/RID):							
14.1	DR/RID Sh	ipping Name:	Sodium Hyd	roxide Solution						
			1824		Packing Group	•	Ш			
A	N Number:	•								



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440	
14.3	AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Sodium Hydroxide Solution	on					
UN Number:	1824	Packing Group:	II				
Hazard Class:	8 - CORROSIVE	IATA Classification:	8				
Additional Transport	Transport in accordance with	local, state, and federal regulations.					
Information:	nformation: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity (
	E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.						
	ods/Excepted Quantity.						

Section 15. Regulatory Information

CAS #		nents and Reauthorization Act	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1310-73-2	Sodium hydroxid	· · · ·	No	Yes 1000 LB	No	
7732-18-5	Water		No	No	No	
					140	
		nponents (Chemical Name)	Other US EPA o			
1310-73-2 Sodium hydroxid		le	CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -	
7732-18-5	Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory In Statement:	formation	This SDS was prepared in acco No.1272/2008.	ordance with 29 CFF	R 1910.1200 and Re	gulation (EC)	
		Section 16. Oth	ner Informatio	on		
Revision Date	:	11/22/2016				
Additional Inf	ormation About	No data available.				
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their of their particular purposes.	ver, we make no wa to such informatior	rranty of merchantak n, and we assume no	bility or any other warrant b liability resulting from its	



	Revision:	11/22/2016
Supersedes	Revision:	04/21/2015

Pr 2 Re 3 De 3 De (1 Cl: 1 Cl: 2 La 2 La	Section 1. Product Code: Product Name:	the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	the Company/Undertaking gainst: inary use. +1 (734)971-3335 +1 (800)424-9300 +1 (703)527-3887				
Pr .2 Re .3 De .3 De .1 Cl: .1	Product Code: Product Name: Relevant identified uses o Relevant identified uses Details of the Supplier of t Company Name: Web site address: Information: Emergency telephone num Emergency Contact:	10009149 Acid Phosphatase (control) f the substance or mixture and uses advised ag : For research use only, not for human or veter the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	gainst: inary use. +1 (734)971-3335 +1 (800)424-9300 +1 (703)527-3887				
Pr .2 Re .3 De .3 De .1 Cl: .1	Product Name: Relevant identified uses o Relevant identified uses Details of the Supplier of t Company Name: Web site address: Information: Emergency telephone num Emergency Contact:	Acid Phosphatase (control) f the substance or mixture and uses advised ag : For research use only, not for human or veter the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (734)971-3335 +1 (800)424-9300 +1 (703)527-3887				
.2 Re F .3 De .3 De .4 En .1 Cl. .1 Cl. .1 .2 La	Relevant identified uses o Relevant identified uses Details of the Supplier of t Company Name: Web site address: Information: Emergency telephone num Emergency Contact:	f the substance or mixture and uses advised ag For research use only, not for human or veter the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (734)971-3335 +1 (800)424-9300 +1 (703)527-3887				
F 3 De (1 .4 En 1 Cl. 1 .2 La	Relevant identified uses Details of the Supplier of t Company Name: Web site address: Information: Emergency telephone num Emergency Contact:	: For research use only, not for human or veter the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (734)971-3335 +1 (800)424-9300 +1 (703)527-3887				
.3 De () () () () () () () () () () () () ()	Details of the Supplier of the Company Name: Web site address: Information: Emergency telephone num Emergency Contact: Classification of the Substant Respiratory Sensitizatio	the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (734)971-3335 +1 (800)424-9300 +1 (703)527-3887				
(1 .4 En E .1 Cl. .1 .2 La	Company Name: Web site address: Information: Emergency telephone num Emergency Contact: Classification of the Subs Respiratory Sensitizatio	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (800)424-9300 +1 (703)527-3887				
1 Cl. 1 Cl. 2 La	Web site address: Information: Emergency telephone num Emergency Contact: Classification of the Subs Respiratory Sensitizatio	1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (800)424-9300 +1 (703)527-3887				
I En E	Information: Emergency telephone num Emergency Contact: Classification of the Subs Respiratory Sensitizatio	Cayman Chemical Company nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (800)424-9300 +1 (703)527-3887				
.4 En E .1 Cl. .2 La	Emergency telephone num Emergency Contact: Classification of the Subs Respiratory Sensitizatio	nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (800)424-9300 +1 (703)527-3887				
E .1 Cl: .2 La 	Emergency Contact: Classification of the Subs Respiratory Sensitizatio	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (703)527-3887				
.1 Cl. .2 La	Classification of the Subs Respiratory Sensitizatio	CHEMTREC Outside USA and Canada: Section 2. Hazards Identific tance or Mixture:	+1 (703)527-3887				
2 La	Respiratory Sensitizatio	Section 2. Hazards Identific					
2 La	Respiratory Sensitizatio	tance or Mixture:	cation				
2 La	Respiratory Sensitizatio						
.2 La		n, Category 1					
	Label Elements:						
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:						
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.						
I	GHS Precaution Phrases:						
	P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.						
	P285: In case of inadequate ventilation wear respiratory protection.						
	GHS Response Phrases:						
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+311: If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.						
	GHS Storage and Disposal Phrases:						
		for Storage and Section 13 for Disposal information	1.				
	Adverse Human Health	Material may be irritating to the mucous membran					
	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin al					
		May cause allergy or asthma symptoms or breathing difficulties if inhaled.					
		May cause eye, skin, or respiratory system irritation.					
	To the best of our knowledge, the toxicological properties have not been thoroughly investigate						



CAS	#/	Hazardous Com	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE	-	REACH Registra	• •	Concentration	EC NO./ EC Index No.	GHS Classification		
900 NA	1-77-8	Phosphatase, acid		100.0 %	232-630-9 NA	Resp. Sens. 1: H334		
		·	Section 4. Fi	rst Aid Measu	ures			
4.1	Descrip	tion of First Aid						
	Measur	es:						
	In Case	of Inhalation:			I respiration or gi	ve oxygen by trained personnel.		
			Get immediate medical atten					
	In Case	of Skin Contact:	-			5 minutes. Remove contaminated		
			clothing. Get medical attentio	• •	C C			
	In Case	of Eye Contact:	and tested by medical persor		ater for at least 1	5 minutes. Have eyes examined		
	In Case	of Ingestion:	Wash out mouth with water p		nscious Nevera	ive anything by mouth to an		
	III Case	or ingestion.		-	-			
			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.					
			Section 5. Fire	Fighting Mea	asures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, o			spray.		
	Media:	0 0	Use water spray to cool fire-					
	Unsuita	ble Extinguishing	A solid water stream may be inefficient.					
	Media:							
5.2	Flamma	able Properties an	d No data available.					
	Hazard	S:						
			No data available.					
	Flash P	t:	No data.					
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ata.			
	Autoigr	nition Pt:	No data.					
5.3	Fire Fig	hting Instructions	: As in any fire, wear self-cont	ained breathing app	aratus pressure-c	lemand (NIOSH approved or		
			equivalent), and full protectiv	e gear to prevent co	ntact with skin ar	nd eyes.		
			Section 6. Accider	ntal Release I	Measures			
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide ac	lequate ventilatio	n.		
	Protect	ive Equipment and				eathing apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate personal pro	otection (rubber boo	ts, safety goggles	s, and heavy rubber gloves).		
6.2	Enviror	nmental	Take steps to avoid release	into the environmen	t, if safe to do so.			
	Precau	tions:						
6.3			r Contain spill and collect, as					
		ment and Cleanir	ngTransfer to a chemical waste	e container for dispo	sal in accordance	e with local regulations.		
	Up:							
			Section 7. Har	ndling and St	orage			
7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/ga	as/mist/vapours/spra	ıy.			
	in Hanc	lling:	Avoid prolonged or repeated	exposure.				
7.2	Precau	tions To Be Taken	Keep container tightly closed					
	in Stori	ng:	Store in accordance with info	ormation listed on the	e product insert.			
						Multi-region forma		



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	Secti	ion 8. Exposure Controls/Personal Protection						
3.1	Exposure Parameters:							
3.2	Exposure Controls:							
3.2.1	-	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborr						
	(Ventilation etc.):	levels below recommended exposure limits.						
3.2.2	Personal protection equip	ment:						
	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):	(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 show						
		ish 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 powder						
	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.						
	Specific Gravity (Water = 1	1): No data.						
	Solubility in Water:	No data.						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu							
	Viscosity:	No data.						
9.2	Other Information							



Multi-region format

	. H I M I C A I				0		1011. 04/21/2013		
L			Section 10. Stability ar	nd Reacti	vity				
10.1	-								
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with infor	mation listed	on the product	insert.			
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	No data available.						
10.5	Incompa	atibility - Materials	s strong oxidizing agents						
	To Avoi	d:							
10.6	Hazardo	ous	No data available.						
	-	osition or							
	Byprodu	icts:							
			Section 11. Toxicologica	al Informa	ation				
11.1	Informat	tion on	The toxicological effects of this product	have not beer	n thoroughly st	udied.			
	Toxicolo	ogical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
900	1-77-8	Phosphatase, ac	id	n.a.	n.a.	n.a.	n.a.		
	Section 12. Ecological Information								
12.1	Toxicity	<u>.</u>	Avoid release into the environment.						
	12.1 TOXICITY.		Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data available.	, ,					
	Degradability:								
12.3	Bioaccu	mulative	No data available.						
	Potentia	l:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	No data available.						
	assessn	nent:							
12.6	Other ac	verse effects:	No data available.						
			Section 13. Disposal Co	onsiderat	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with local, state,	and federal r	egulations.				
			Section 14. Transport	Informat	ion				
14.1	LAND T	RANSPORT (US I	DOT):						
D	OT Prope	r Shipping Name	Not dangerous goods.						
D	OT Hazar	d Class:							
υ	N/NA Nur	nber:							
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):						
A	DR/RID S	hipping Name:	Not dangerous goods.						
U U	N Numbe	r:							
н	azard Cla	SS:							



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

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)	
9001-77-8	Phosphatase, aci	Phosphatase, acid		No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or	State Lists	•	
9001-77-8	Phosphatase, acid		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Inf Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and R	egulation (EC)	
		Section 16. Oth	ner Informatio	n		
Revision Date: 11/22/2016						
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.				



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	acc	cording to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008				
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking				
.1	Product Code:	10009150					
	Product Name:	Acid Phosphatase Sodium Tartrate					
.2	Relevant identified uses of	f the substance or mixture and uses advised aga	ainst:				
	Relevant identified uses	: For research use only, not for human or veterin	nary use.				
.3	Details of the Supplier of	the Safety Data Sheet:					
	Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone nur	nber:					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
2.1	Classification of the Subs	tance or Mixture:					
	Acute Toxicity: Oral, Category 3						
2.2							
	GHS Signal Word:	Dangar					
	GHS Hazard Phrases:	Danger					
	H301: Toxic if swallowed.						
	GHS Precaution Phrase						
	P264: Wash {hands} thor						
	GHS Response Phrases:						
	-	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.					
	GHS Storage and Dispo	sal Phrases:					
	Please refer to Section 7	for Storage and Section 13 for Disposal information.					
2.3	Adverse Human Health Effects and Symptoms:	Material may be irritating to the mucous membrane May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritation					
		Toxic if swallowed.					
		To the best of our knowledge, the toxicological pro	perties have not been thoroughly investigated				



Multi-region format

		Sect	tion 3. Composition	/Information of	on Ingredie	nts		
CAS # RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
6106 NA	-24-7	Sodium tartrate		20.0 -60.0 %	612-074-7 NA	Acute Tox.(O) 4: H302		
7732 ZC011	2-18-5 0000	Water		30.0 -75.0 %	231-791-2 NA	No data available.		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Descrip	tion of First Aid						
	Measur	es:						
	In Case	of Inhalation:	Remove to fresh air. If not bre	eathing, give artificia	respiration or giv	e 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					
	I. 0		clothing. Get medical attentio		-			
	In Case	of Eye Contact:	and tested by medical person		ater for at least 1	5 minutes. Have eyes examined		
	In Case	of Ingestion:			nscious Neverai	ve anything by mouth to an		
		or 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 Mea	asures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, wate	r, 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	Flamma	able Properties an	dNo data available.					
	Hazards	5:						
			No data available.					
	Flash P		No data.					
	-	ve Limits:	LEL: No data.	UEL: No da	ita.			
	-	nition Pt:	No data.					
5.3	Fire Fig	hting Instructions	s: As in any fire, wear self-conta	• • • •	•	· · ·		
			equivalent), and full protectiv	•		d eyes.		
			Section 6. Acciden	ital Release N	leasures			
6.1	Protect	ive Precautions,	Avoid breathing vapors and	provide adequate ve	ntilation.			
	Protect	ive Equipment and				athing apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate personal pro	ptection (rubber boot	s, safety goggles	, and heavy rubber gloves).		
6.2	Environ		Take steps to avoid release	into the environment	, if safe to do so.			
	Precaut							
6.3			r Contain spill and collect, as					
		ment and Cleanir	ngTransfer to a chemical waste	e container for dispos	sal in accordance	with local regulations.		
	Up:							



Carman	Acid Phosphatase Sodium Tartrate Revision: 11/22/2016							
	Supersedes Revision: 04/21/2015							
	Section 7. Handling and Storage							
7.1 Precautions To Be Take	n Avoid breathing dust/fume/gas/mist/vapours/spray.							
in Handling:	Avoid prolonged or repeated exposure.							
7.2 Precautions To Be Take	n Keep container tightly closed.							
in Storing:	Store in accordance with information listed on the product insert.							
Sec	ction 8. Exposure Controls/Personal Protection							
8.1 Exposure Parameters:								
2.2 Exposure Controls:								
3.2.1 Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn							
(Ventilation etc.):	levels below recommended exposure limits.							
3.2.2 Personal protection equ	ipment:							
Eye Protection:	Safety glasses							
Protective Gloves:	Compatible chemical-resistant gloves							
Other Protective Clothin	Other Protective Clothing:Lab coat							
Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.							
Work/Hygienic/Maintena	n Do not take internally							
ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety show							
ce i laciles.	Wash thoroughly after handling.							
	No data available.							
	Section 9. Physical and Chemical Properties							
	ysical and Chemical Properties							
Physical States:	[]Gas [X]Liquid []Solid							
Appearance and Odor:	Solution							
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 Hg):	or mm No data.							
Vapor Density (vs. Air =	1): No data.							
Specific Gravity (Water :	-							
Solubility in Water:	No data.							
-	No data.							
Octanol/Water Partition Coefficient:	No data.							



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	-							-	
	Autoignition Pt: No data.								
	=	osition Temperat							
	Viscosit	y:	No d	lata.					
9.2	Other Inf	ormation							
	Percent	Volatile:	No d	lata.					
			Secti	ion 10. Stabili	ity and	Reactivit	y		
10.1	Reactivi	ty:	No data ava	ilable.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3	Stability	Note(s):	Stable if stor	red in accordance w	ith informa	tion listed on	the product	insert.	
	Polymer	ization:	Will occur [] Will not occur	·[X]				
10.4	Conditions To Avoid: No data available.								
10.5	Incompa	atibility - Materials	strong oxidiz	zing agents					
	To Avoid	d:							
10.6	Hazardo	us	carbon dioxi	ide					
	Decomp	osition or	carbon mone	oxide					
	Byprodu	icts:							
			Sectio	n 11. Toxicol	ogical	Informati	on		
11.1	Informat	ion on	The toxicolo	ogical effects of this p	product hav	e not been th	oroughly st	udied.	
	Toxicolo	gical Effects:							
Carci	arcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No								
CAS	CAS # Hazardous Components (Chemical Name)					NTP	IARC	ACGIH	OSHA
610	6-24-7	Sodium tartrate		,		n.a.	n.a.	n.a.	n.a.
	2-18-5	Water				n.a.	n.a.	n.a.	n.a.
			<u> </u>	ian 10 Eacle					
				ion 12. Ecolo	<u> </u>	itormatio	n		
12.1	Toxicity	:	Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste		No data available.						
	Degrada	-							
12.3		mulative	No data available.						
	Potentia								
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5	Results	of PBT and vPvB	No data ava	ilable.					
	assessm	nent:							
12.6	Other ad	lverse effects:	No data ava	ilable.					
			Sectio	on 13. Dispos	al Con	sideratio	ns		
13.1	Waste D	isposal Method:	Dispose in a	accordance with loca	al, state, an	d federal regu	lations.		



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Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1 DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: LAND TRANSPORT (European ADR/RID): 14.1 ADR/RID Shipping Name: Not dangerous goods. **UN Number:** Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 6106-24-7 Sodium tartrate No No No 7732-18-5 Water No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists 6106-24-7 Sodium tartrate CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No 7732-18-5 Water CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -Inventory; CA PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) **Regulatory Information** No.1272/2008. Statement: Section 16. Other Information **Revision Date:** 11/22/2016 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.