

SAFETY DATA SHEET 96-Well Cover Sheet

Revision: 03/28/2017 Supersedes Revision: 02/12/2017

	CHEMICA	Ī			ç	Supersedes Revision: 02/12/2017		
		acco	rding to Regulation (EC) No. 190)7/2006 as amended b	oy (EC) No. 1272/200	8		
		Section 1. Id	dentification of the Substar	nce/Mixture and of	the Company/Ur	ndertaking		
.1	Produc	t Code:	400012					
	Produc	et Name:	96-Well Cover Sheet					
.2	Releva	nt identified uses of	the substance or mixture a	and uses advised a	against:			
	Relev	ant identified uses:	For research use only, no	ot for human or vete	erinary use.			
.3	Details	of the Supplier of the	ne Safety Data Sheet:					
	Com	bany Name:	Cayman Chemical Comp	bany				
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web	site address:	www.caymanchem.com					
	Infor	mation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335		
.4	Emerge	ency telephone num	ber:					
	Emer	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300		
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887		
			Section 2. Haz	zards Identifi	cation			
.1	Classif	ication of the Substa	ance or Mixture:					
.2	Label E	Elements:						
	GHS	Signal Word:	None					
	GHS Hazard Phrases:							
	Base	d on evaluation of cur	rently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.		
		Precaution Phrases	:					
		nrases apply.						
		Response Phrases:						
	-	nrases apply. Storage and Dispos	al Phracacu					
		•	or Storage and Section 13 for	Disposal informatio	מר			
.3			-	-		piratory tract.		
	Adverse Human HealthMaterial may be irritating to the mucous membranes and upper respiratory tract.Effects and Symptoms:May be harmful by inhalation, ingestion, or skin absorption.							
	Ellecia	s and Symptoms:	may be narmini by innalation	i, ingestion, or skin a	aboorption			
	Enect	<i>,</i> ,	May cause eye, skin, or resp		•			
	Ellect		May cause eye, skin, or resp	iratory system irrita	tion.	been thoroughly investigated		
			May cause eye, skin, or resp	iratory system irrita e, the toxicological p	tion. properties have not	been thoroughly investigated		
CAS		Secti	May cause eye, skin, or resp To the best of our knowledge On 3. Composition pnents (Chemical Name)/	iratory system irrita e, the toxicological p	tion. properties have not			
	#/	Secti Hazardous Compo	May cause eye, skin, or resp To the best of our knowledge On 3. Composition pnents (Chemical Name)/	iratory system irrita e, the toxicological p /Information	tion. properties have not On Ingredier EC No./	nts		



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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
		a 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	-	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or
5.5	File Fighting instructions	equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		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	Precautions To Be Taker	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:	



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8.2							
	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equip	pment:					
	Eye Protection:	afety glasses					
	Protective Gloves: Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
		Wash thoroughly after handling.					
		No data available.					
	<u> </u>	action 0. Dhysical and Chamical Dranartics					
		ection 9. Physical and Chemical Properties					
9.1	Information on Basic Phys	sical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	96-Well Cover Sheet					
	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): 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						
	Viscosity:	No data.					
9 2	Other Information						
9.2	Percent Volatile:	No data.					
	Percent volatile:						
		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	s No data available.					
	To Avoid:						
10.6	Hazardous	No data available.					



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	Decomposition or							
	Byprodu	cts:						
			Section 11. Toxico	logical Infori	mation			
11.1	Informat	ion on	The toxicological effects of this	product have not b	een thoroughly stu	idied.		
	Toxicolo	gical Effects:						
CAS	CAS # Hazardous Compor		ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA 96-Well Cover Sheet			n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecolo	ogical Inform	ation			
12.1	Toxicity	:	Avoid release into the environment.					
		Runoff from fire control or dilution water may cause pollution.						
12.2	2.2 Persistence and		No data available.					
	Degrada	bility:						
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.					
	assessm	nent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Dispo	sal Consider	ations			
13.1	Waste D	isposal Method:	Dispose in accordance with loc	al, state, and feder	al regulations.			
			Section 14. Trar	sport Inform	ation			
14.1	LAND T	RANSPORT (US I	DOT):					
D	OT Prope	r Shipping Name:	Not dangerous goods.					
D	OT Hazar	d Class:						
U	N/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
Α	DR/RID S	nipping Name:	Not dangerous goods.					
U	N Number	r:						
н	azard Cla	SS:						
14.3	AIR TRA	ANSPORT (ICAO/I	ATA):					
IC	CAO/IATA	Shipping Name:	Not dangerous goods.					
	ional Trar	nsport	Transport in accordance with le	ocal, state, and fede	eral regulations.			
Infor	mation:							
			Section 15. Regu	latory Inform	ation			
		- 	ents and Reauthorization Act	-				
CAS			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ		3 (TRI)	
	NA	96-Well Cover Sh		No	No	No		
CAS			ponents (Chemical Name)	Other US EPA of				
	NA	96-Well Cover Sh	leet	CAA HAP,ODC PROP.65: No	: No; CWA NPDE	S: No; TSCA:	No; CA	
							_	
1								
						N	Iulti-region format	



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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:	03/28/2017
Additional Information About This Product:	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 warrantly of merchantability or any other warrantly, 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: 04/23/2017

	CHEMICAL				5	Supersedes Revision: 05/23/201		
		acco	rding to Regulation (EC) No. 190	7/2006 as amended by	/ (EC) No. 1272/200	8		
		Section 1. Id	dentification of the Substar	nce/Mixture and of	the Company/Ur	ndertaking		
.1	Produc Produc	t Code: t Name:	400013 96-Well Solid Plate (white	e)				
.2	Releva	nt identified uses of	the substance or mixture a	nd uses advised a	gainst:			
	Relev	ant identified uses:	For research use only, no	ot for human or veter	rinary use.			
1.3	Details of the Supplier of the Safety Data Sheet:							
	Comp	oany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany				
	Web s	site address:	www.caymanchem.com					
		nation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335		
.4	Emerge	ency telephone num						
	-	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887		
			Section 2. Haz	zards Identifio	cation			
2.1	Classifi	cation of the Subst			Jacon			
2.2		lements:						
			Nono					
		Signal Word: Hazard Phrases:	None					
			rently available data this sub	stance or mixture is	not classifiable ac	cording to CHS		
	GHS Precaution Phrases:							
	No phrases apply.							
	-							
	GHS	Response Phrases:						
	GHS No ph	Response Phrases: arases apply.						
	GHS No ph GHS	Response Phrases: arases apply. Storage and Dispos	al Phrases:	Disposal informatio	n			
2.3	GHS No ph GHS Pleas	Response Phrases: arases apply. Storage and Dispos e refer to Section 7 fo	al Phrases: or Storage and Section 13 for	-		piratory tract.		
2.3	GHS No ph GHS Pleas Advers	Response Phrases: arases apply. Storage and Dispos e refer to Section 7 fo se Human Health	al Phrases:	he mucous membrai	nes and upper res	piratory tract.		
2.3	GHS No ph GHS Pleas Advers	Response Phrases: arases apply. Storage and Dispos e refer to Section 7 fo se Human Health a and Symptoms:	al Phrases: or Storage and Section 13 for Material may be irritating to t	he mucous membrai , ingestion, or skin a	nes and upper res bsorption.	piratory tract.		
2.3	GHS No ph GHS Pleas Advers	Response Phrases: arases apply. Storage and Dispos e refer to Section 7 fo se Human Health and Symptoms:	al Phrases: or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation	he mucous membrai , ingestion, or skin a iratory system irritati	nes and upper res bsorption. on.			
2.3	GHS No ph GHS Pleas Advers	Response Phrases: arases apply. Storage and Dispos e refer to Section 7 fo se Human Health a and Symptoms:	al Phrases: or Storage and Section 13 for Material may be irritating to tl May be harmful by inhalation May cause eye, skin, or resp	he mucous membrain, ingestion, or skin a iratory system irritation, the toxicological province of toxic	nes and upper res bsorption. on. roperties have not	been thoroughly investigated		
CAS	GHS No ph GHS Pleas Advers Effects	Response Phrases: arases apply. Storage and Dispos e refer to Section 7 for se Human Health and Symptoms: Section	al Phrases: or Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge on 3. Composition onents (Chemical Name)/	he mucous membrain, ingestion, or skin a iratory system irritation, the toxicological province of toxic	nes and upper res bsorption. on. roperties have not	been thoroughly investigated		



Revision: 04/23/2017 Supersedes 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 20 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 20 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	: 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 and	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:	



	HEMICAL	Supersedes 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 equip	oment:						
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat							
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.						
	(Specify Type):							
	Work/Hygienic/Maintenan	Do not take internally.						
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe						
		Wash thoroughly after handling.						
		No data available.						
	Se	ection 9. Physical and Chemical Properties						
9.1	Information on Basic Phys	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):	No data available.						
	Explosive Limits:	LEL: No data. UEL: No data.						
	Vapor Pressure (vs. Air or	r mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1): No data.						
	Specific Gravity (Water =							
	Solubility in Water:	No data.						
	Octanol/Water Partition	No data.						
	Coefficient:							
		No data.						
	Autoignition Pt:							
	Decomposition Temperate	No data.						
• •	Viscosity:	ino dala.						
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.						
		Multi-region form						



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Decomposition or **Byproducts:** Section 11. Toxicological Information 11.1 Information on The toxicological effects of this product have not been thoroughly studied. **Toxicological Effects:** CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 96-Well Solid Plate (black or white) NA n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 **Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. No data available. 12.2 Persistence and **Degradability: Bioaccumulative** No data available. 12.3 Potential: 12.4 Mobility in Soil: No data available. Results of PBT and vPvB No data available. 12.5 assessment: No data available. 12.6 Other adverse effects: Section 13. Disposal Considerations Dispose in accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): Not dangerous goods. **DOT Proper Shipping Name: DOT Hazard Class: UN/NA Number:** 14.1 LAND TRANSPORT (European ADR/RID): 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) NA 96-Well Solid Plate (black or white) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA 96-Well Solid Plate (black or white) CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No



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Caynan	Supersedes Revision: 05/23/2016
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:	04/23/2017
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.



Revisi	on: 02/12/2017
Supersedes Revisi	on: 05/23/2016

	CHEMICAL		ording to Regulation (EC) No. 190	7/2006 as amonded b	W (EC) No. 1272/200	0	
			dentification of the Substar				
					the company/or	IUEITAKIIY	
.1		et Code: et Name:	400044 480 Well Kit Box				
2							
.2			f the substance or mixture a		-		
_	Relevant identified uses: For research use only, not for human or veterinary use.						
.3		of the Supplier of t bany Name:	he Safety Data Sheet: Cayman Chemical Comp	2014			
	Com	Jarry Name.	1180 E. Ellsworth Rd.	Jany			
			Ann Arbor, MI 48108				
	Web	site address:	www.caymanchem.com				
	Inforr	mation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335	
.4	-	ency telephone nun					
	Emer	gency Contact:	CHEMTREC Within USA		-	0)424-9300	
			CHEMTREC Outside US			3)527-3887	
			Section 2. Ha	zards Identifi	cation		
.1		ication of the Subst	ance or Mixture:				
.2	Label E	Elements:					
	GHS	Signal Word:	None				
		Hazard Phrases:					
			rrently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.	
		Precaution Phrases	5:				
		nrases apply.					
		Response Phrases nrases apply.					
	-	Storage and Dispos	sal Phrasos				
	GHS						
		•		· Disposal informatio	on.		
.3	Pleas	•	or Storage and Section 13 for	-		piratory tract.	
.3	Pleas Advers	se refer to Section 7 f		he mucous membra	ines and upper res	piratory tract.	
.3	Pleas Advers	se refer to Section 7 f se Human Health	or Storage and Section 13 for Material may be irritating to t	he mucous membra n, ingestion, or skin a	nes and upper res	piratory tract.	
3	Pleas Advers	se refer to Section 7 f se Human Health	or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	he mucous membra n, ingestion, or skin a niratory system irritat	nes and upper res absorption. tion.		
2.3	Pleas Advers	se refer to Section 7 f se Human Health s and Symptoms:	or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	he mucous membra a, ingestion, or skin a iratory system irritat e, the toxicological p	nes and upper res absorption. tion. roperties have not	been thoroughly investigated	
CAS	Pleas Advers Effects	se refer to Section 7 f se Human Health s and Symptoms: Sect	or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/	he mucous membra a, ingestion, or skin a iratory system irritat e, the toxicological p	nes and upper res absorption. tion. roperties have not	been thoroughly investigated	
CAS	Pleas Advers Effects # /	se refer to Section 7 f se Human Health s and Symptoms: Sect Hazardous Comp	or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/	he mucous membra a, ingestion, or skin a iratory system irritat a, the toxicological p //Information	ines and upper res absorption. tion. roperties have not on Ingrediel EC No./	been thoroughly investigated	



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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.
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	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	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 raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	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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	HENTERI	Supersedes Revision: 05/23/2016				
8.2	Exposure Controls:					
8.2.1		Ise process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipn	nent:				
	Eye Protection:	afety glasses				
	Protective Gloves: 0	Compatible chemical-resistant gloves				
	Other Protective Clothing:L	ab coat				
	Respiratory Equipment	IIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	Do not take internally.				
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
	V	Vash thoroughly after handling.				
	Ν	lo data available.				
	Se	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	· · ·				
	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 or r					
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1)					
	Solubility in Water:	No data. No data.				
	Octanol/Water Partition	NO data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatur					
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	lo data available.				
10.2	Stability:	Instable [] Stable [X]				
10.3	Stability Note(s):	stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Vill occur [] Will not occur [X]				
10.4	Conditions To Avoid:	lo data available.				
10.5	Incompatibility - Materials	lo data available.				
	To Avoid:					
10.6		lo data available.				
-	-					
		Multi-region forma				



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	Decomp Byprodu	osition or					
	,		Section 11. Toxico	logical Infor	mation		
11.1	Informat	tion on	The toxicological effects of this			idied.	
	Toxicolo	ogical Effects:					
CAS # Hazardo		Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	NA	480 Well Kit Box		n.a.	n.a.	n.a.	n.a.
			Section 12. Ecolo	ogical Inform	ation		
12.1	Toxicity	:	Avoid release into the environm				
			Runoff from fire control or diluti	on water may caus	e pollution.		
12.2	Persiste		No data available.				
40.0	Degrada		Ne dete evelleble				
12.3	Potentia	mulative	No data available.				
12.4	Mobility		No data available.				
12.5	-		No data available.				
_	assessn	nent:					
12.6	Other ac	lverse effects:	No data available.				
			Section 13. Dispos	sal Conside	ations		
13.1	Waste D	isposal Method:	Dispose in accordance with loc	al, state, and feder	al regulations.		
			Section 14. Tran	sport Inform	ation		
14.1	LAND T	RANSPORT (US I	DOT):				
D	OT Prope	r Shipping Name:	Not dangerous goods.				
D	OT Hazar	d Class:					
U	N/NA Nur	nber:					
14.1		RANSPORT (Euro					
		hipping Name:	Not dangerous goods.				
_	N Numbe						
14.3		ANSPORT (ICAO/I	ATA):				
		Shipping Name:	Not dangerous goods.				
Addit	tional Trai	nsport	Transport in accordance with lo	ocal, state, and fed	eral regulations.		
Infor	mation:						
			Section 15. Regu	latory Inform	nation		
EPA	SARA (Su	perfund Amendm	ents and Reauthorization Act	of 1986) Lists			
CAS	#		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	3 (TRI)
	NA	480 Well Kit Box		No	No	No	
CAS	#		ponents (Chemical Name)	Other US EPA	or State Lists		
	NA	480 Well Kit Box		CAA HAP,ODC PROP.65: No	: No; CWA NPDE	S: No; TSCA:	No; CA
						Ν	lulti-region format



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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:	02/12/2017					
Additional Information About	No data available.					
This Product:						
	No data available. 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.					



1.1

1.2

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2.1

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2.3

SAFETY DATA SHEET

1	SAFETY DATA SHE	
0	SEAP Substrate (Lumines	cence) Revision: 01/03/2017
Angn		Supersedes Revision: 06/26/2016
ac	cording to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008
Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking
Product Code:	600183	
Product Name:	SEAP Substrate (Luminescence)	
Relevant identified uses	of the substance or mixture and uses advised aga	inst:
Relevant identified uses	-	
	· · · · · · · · · · · · · · · · · · ·	
Details of the Supplier of Company Name:	Cayman Chemical Company	
company Name.	1180 E. Ellsworth Rd.	
	Ann Arbor, MI 48108	
Web site address:	www.caymanchem.com	
Information:	Cayman Chemical Company	+1 (734)971-3335
Emergency telephone nu	mber:	
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
GHS Signal Word:	Warning	
GHS Hazard Phrases:		
H316: Causes mild skin i		
H402: Harmful to aquatic		
•	life with long lasting effects.	
GHS Precaution Phrase		
P273: Avoid release to th		
GHS Response Phrases		
	n occurs, get medical advice/attention.	
GHS Storage and Dispo	for Storage and Section 13 for Disposal information.	
Adverse Human Health	Causes mild skin irritation.	
Effects and Symptoms:	Harmful to aquatic life with long lasting effects.	
Encous and oymptoms.	Material may be irritating to the mucous membrane	s and upper respiratory tract.
	May be harmful by inhalation, ingestion, or skin abs	
	May cause eye or respiratory system irritation.	
	To the best of our knowledge, the toxicological prop	perties have not been thoroughly investigated.



Revision: 01/03/2017 Supersedes Revision: 06/26/2016

		Sec	tion 3. Composition	n/information	on ingredie	nts	
CAS # / Hazardous Comp RTECS # REACH Registrat			ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
26628-22-8 Sodium azide VY8050000		Sodium azide		< 0.1 %	247-852-1 011-004-00-7	Acute Tox.(O) 2: H300 Aquatic (A) 1: H400 Aquatic (C) 1: H410	
NA NA		1,2-dioxetane-ene		< 1.0 %	NA NA	No data available.	
NA NA		Tris Buffer		< 2.0 %	NA NA	Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336 Aquatic (A) 1: H400 Aquatic (C) 1: H410	
NA NA		Enhancer-450 alkal	ine phosphatase substrate	< 1.0 %	NA NA	No data available.	
7732 ZC01	2-18-5 10000	Water		>95.0 %	231-791-2 NA	No data available.	
			Section 4. F	irst Aid Meas	sures		
In Case		e of Skin Contact: e of Eye Contact: e of Ingestion:	and tested by medical personnel.				
			Section 5. Fire	e Fighting Me	easures		
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: Media:				spray.		
5.2	Flamm Hazard	-	ndNo data available.				
	-	Pt: sive Limits: nition Pt:	No data available. No data. LEL: No data. No data.	UEL: No o	data.		



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		Sect	ion 6. Accident	al Release Measures				
6.1	Protective Precautions,	Avoid	breathing vapors and p	rovide adequate ventilation.				
	Protective Equipment an	d As co	nditions warrant, wear a	NIOSH approved self-contained breathing	g apparatus, or respirator			
	Emergency Procedures:	and a	nd appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
6.2	Environmental	Takes	steps to avoid release ir	nto the environment, if safe to do so.				
	Precautions:							
6.3	Methods and Material Fo		-					
		ngTrans	fer to a chemical waste	container for disposal in accordance with I	ocal regulations.			
	Up:							
		0,	Section 7. Han	dling and Storage				
7.1	Precautions To Be Taker	n Avoid	breathing dust/fume/gas	s/mist/vapours/spray.				
	in Handling:	Avoid	prolonged or repeated e	exposure.				
7.2	Precautions To Be Taker	-						
	in Storing:			mation listed on the product insert.				
	Other Precautions:	Light s	ensitive.					
	Sec	tion 8	. Exposure Co	ntrols/Personal Protection				
8.1	Exposure Parameters:				1			
CAS	# Chemical Name		Jurisdiction	Recommended Exposure Limits	Notations			
26628	3-22-8 Sodium azide		ACGIH TLV	CEIL: 0.29 mg/m3				
			Europe	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	Skin Absorptio			
			France VL	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3				
			France VL Britain EH40	TWA: 0.1 mg/m3	Skin Absorptio			
8.2	Exposure Controls:			TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 ()	Skin Absorptio			
	Engineering Controls	-	Britain EH40 rocess enclosures, local	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of				
8.2.1	Engineering Controls (Ventilation etc.):	levels	Britain EH40	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of				
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equ	levels ipment:	Britain EH40 rocess enclosures, local below recommended ex	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of				
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection:	levels ipment: Safety	Britain EH40 rocess enclosures, local below recommended ex glasses	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of				
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves:	levels ipment: Safety Compa	Britain EH40 rocess enclosures, local below recommended ex glasses atible chemical-resistant	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of				
8.2 8.2.1 8.2.2	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothing	levels ipment: Safety Compa g:Lab co	Britain EH40 rocess enclosures, local below recommended ex glasses atible chemical-resistant	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of posure limits.	Skin Absorption			
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves:	levels ipment: Safety Compa g:Lab co	Britain EH40 rocess enclosures, local below recommended ex glasses atible chemical-resistant	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of posure limits.				
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothing Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	levels ipment: Safety Compa g:Lab co NIOSH n Do not	Britain EH40 Focess enclosures, local below recommended ex glasses atible chemical-resistant pat H approved respirator, a	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of sposure limits. a gloves s conditions warrant.	controls to control airborn			
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothing Respiratory Equipment (Specify Type):	levels ipment: Safety Compa g:Lab co NIOSH n Do not Faciliti	Britain EH40 rocess enclosures, local below recommended ex glasses atible chemical-resistant bat d approved respirator, a t take internally. es storing or utilizing thi	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of posure limits.	controls to control airborn			
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothing Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	levels ipment: Safety Compa g:Lab co NIOSF n Do not Faciliti showe	Britain EH40 rocess enclosures, local below recommended ex glasses atible chemical-resistant bat H approved respirator, a t take internally. es storing or utilizing thi r.	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of posure limits. a gloves s conditions warrant. s material should be equipped with an eye	controls to control airborn			
8.2.1	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothing Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	levels ipment: Safety Compa g:Lab co NIOSH n Do not Faciliti showe Wash	Britain EH40 rocess enclosures, local below recommended ex glasses atible chemical-resistant bat d approved respirator, a t take internally. es storing or utilizing thi	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () exhaust ventilation, or other engineering of posure limits. a gloves s conditions warrant. s material should be equipped with an eye	controls to control airborn			



Revision: 01/03/2017 Supersedes Revision: 06/26/2016

	CHIMICAL	Supersedes Revision: 06/26/2016
	S	ection 9. Physical and Chemical Properties
9.1	Information on Basic Phys	sical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A 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 Hg):	r mm No data.
	Vapor Density (vs. Air = 1): No data.
	Specific Gravity (Water =	1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	No data.
	Decomposition Temperat	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.
10.5	Incompatibility - Materials	s acids
	To Avoid:	bases
		strong reducing agents
		strong oxidizing agents
10.6	Hazardous	carbon dioxide
	Decomposition or	carbon monoxide
	Byproducts:	hydrogen chloride
		nitrogen oxides
		phosphorus oxides



Revision: 01/03/2017 Supersedes Revision: 06/26/2016

	CHIMICKI			· · · · · · ·			upersedes Revis	sion: 06/26/2016
			Sectio	n 11. Toxicological	Informa	ation		
11.1	Informat	ion on		gical effects of this product ha		• •		
	Toxicolo	gical Effects:	Sodium Azide - Toxicity Data: Oral LDLO (rat): 27 mg/kg; Oral LDLO (woman): 14 mg/kg; Oral					
Chronic Toxicological		LDLO (man)						
			le - Investigated as an agricu	Itural chemi	cal, drug, muta	gen, reproduct	tive effector, an	
	Effects:		tumorigen.					
			-	Registry of Toxic Effects of C		-	CS) data is pre	sented here.
				ntry in RTECS for complete i le RTECS Number: VY80500				
0			NTP? No			agulatad2 Na		
	nogenicity	i	_	IARC Monographs? No		egulated? No		
CAS		Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA
266	28-22-8	Sodium azide			n.a.	n.a.	A4	n.a.
	NA	1,2-dioxetane-en	е		n.a.	n.a.	n.a.	n.a.
	NA	Tris Buffer			n.a.	n.a.	n.a.	n.a.
	NA	Enhancer-450 alk	kaline phosph	atase substrate	n.a.	n.a.	n.a.	n.a.
773	32-18-5	Water			n.a.	n.a.	n.a.	n.a.
		4	Secti	on 12. Ecological I	nformat	ion	•	
12.1	Toxicity			e into the environment.				
	loxiony	•		fire control or dilution water n	nav cause p	ollution.		
12.2	Persiste	nce and	No data ava					
12.2	Degrada							
12.3	-	mulative	No data ava	ilahla				
12.3	Potentia		No data available.					
12.4	Mobility		No data ava	ilabla				
			No data available. B No data available. No data available.					
12.5								
40.0	assessm							
12.6	Other ac	lverse effects:	No data ava					
			Sectio	n 13. Disposal Co	nsiderat	ions		
13.1	Waste D	isposal Method:	Dispose in a	ccordance with local, state, a	and federal r	egulations.		
			Sect	tion 14. Transport I	nformat	tion		
14.1	LAND T	RANSPORT (US I	DOT):					
C	OT Prope	r Shipping Name:	Not dan	gerous goods.				
C	OT Hazar	d Class:						
ι	JN/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/R	RID):				
A	DR/RID S	hipping Name:	Not dan	gerous goods.				
ι	JN Numbe	r:						
F	lazard Cla	SS:						



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

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

CAS #	Hazardous Con	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
26628-22-8	Sodium azide		Yes 500 LB	Yes 1000 LB	Yes	
NA	1,2-dioxetane-er	ne	No	No	No	
NA	Tris Buffer		No	No	No	
NA	Enhancer-450 al	kaline phosphatase substrate	No	No	No	
7732-18-5	Water		No	No	No	
CAS #	Hazardous Con	ponents (Chemical Name)	Other US EPA o	r State Lists		
26628-22-8	Sodium azide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
NA	1,2-dioxetane-er	ie	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
NA	Tris Buffer		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
NA	Enhancer-450 al	kaline phosphatase substrate	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			
Regulatory Inf Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and Re	gulation (EC)	
		Section 16. Ot	her Information	on		
Revision Date:		01/03/2017				
Additional Info	ormation About	No data available.				
This Product:						

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



SAFETY DATA SHEET EP Receptor Assay Prostaglandin E2 Positive

	CHEMICAL	Control	Revision: 04/23/201 Supersedes Revision: 05/11/201			
	acc	ording to Regulation (EC) No. 1907/2006 as amended by (EC	C) No. 1272/2008			
	Section 1.	Identification of the Substance/Mixture and of the	Company/Undertaking			
1.1	Product Code: Product Name:	600341 EP Receptor Assay Prostaglandin E2 Positive C	ontrol			
.2	Relevant identified uses	if the substance or mixture and uses advised againFor research use only, not for human or veterina				
1.3	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			
1.4	Emergency telephone nui	nber:				
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887			
		Section 2. Hazards Identificat	tion			
2.1	Classification of the Subs	tance or Mixture:				
	GHS Signal Word: GHS Hazard Phrases:	Danger				
	H227: Combustible liquid					
	H360: May damage fertili					
	GHS Precaution Phrases:					
	P201: Obtain special instructions before use.					
	P202: Do not handle until all safety precautions have been read and understood.					
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.					
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.					
	GHS Response Phrases:					
	P308+313: IF exposed or concerned: Get medical attention/advice.					
	GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.					
2.3	Adverse Human Health	DMSO has the potential to carry toxic materials or m	aterials of unknown toxicity into the body.			
-	Effects and Symptoms:	DMSO is readily absorbed through skin.	, , ,			
		Material may be irritating to the mucous membranes	and upper respiratory tract.			
		May be harmful by inhalation, ingestion, or skin abso	prption.			
		May cause respiratory system irritation.				
		May cause respiratory system irritation. May damage fertility or the unborn child. To the best of our knowledge, the toxicological prope	arties have not been thoroughly investigated			



SAFETY DATA SHEET EP Receptor Assay Prostaglandin E2 Positive

Control

Revision: 04/23/2017 Supersedes Revision: 05/11/2015

	C H E M I C A L	Sect	tion 3. Composition	/Information		nts
040	<i>µ µ µ</i>		•	1		1
		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification
	3-24-6 P 00000	rostaglandin E2		0.211 %	206-656-6 NA	Acute Tox.(O) 4: H302 Toxic Repro. 1B: H360
-	-68-5 D 10000	imethyl sulfoxide, a	anhydrous	99.789 %	200-664-3 NA	Flam. Liq. 4: H227
	ł		Section 4. Fi	rst Aid Measu	ures	•
4.1		on of First Aid				
	Measures In Case of	f Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		I respiration or giv	ve oxygen by trained personne
	In Case of	f Skin Contact:		oap and plenty of wa		5 minutes. Remove contaminat efore reuse.
	In Case of	f Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examine
	In Case of	f Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by
1.2	Important	Symptoms and	Exposure may cause: hematu	uria or shortness of I	oreath (dyspnea).	
	Effects, Both Acute and Exposure may cause: ga			ntestinal irritation wi	th nausea, vomiti	ng, diarrhea, headache,
	Delayed:		dizziness, and drowsiness.			· · · · · · · · · · · · · · · · · · ·
			Eye contact may cause blurry	-		
	Outitable F		Section 5. Fire	<u> </u>		
5.1		Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		r, or dry cnemical	spray.
	Media:	o Extinguiohing	A solid water stream may be	•		
	Media:	e Extinguishing	A Solid water Stream may be	memcient.		
5.2		le Properties an	dCan release vapors that form	-	-	at or above the flashpoint.
	Hazards:		Container explosion may occ		ons.	
			Emits toxic fumes under fire Sensitive to static discharge.	conditions.		
			Vapors can travel to a source	e of ignition and flast	n back	
			No data available.			
	Flash Pt:		89.00 C Method Used: Cl	osed Cup		
	Explosive	l imits [.]	LEL: 3.5% at 25.0 C	•	at 25.0 C	
	Autoigniti		215.00 C	012. 12.070		
5.3	-		s: As in any fire, wear self-conta	ained breathing app	aratus pressure-d	emand (NIOSH approved or
	r no r ign		equivalent), and full protectiv Note: Combustible as diluted	e gear to prevent co	ntact with skin an	



Control

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Section 6. Accidental Release Measures 6.1 **Protective Precautions,** Avoid breathing vapors and provide adequate ventilation. Protective Equipment and 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). **Emergency Procedures:** 6.2 Environmental Take steps to avoid release into the environment, if safe to do so. **Precautions:** 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge. 7.2 Precautions To Be Taken Keep away from heat, sparks and flame. Keep container tightly closed. in Storing: Store in accordance with information listed on the product insert. **Other Precautions:** Hygroscopic Light sensitive Section 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 **Engineering Controls** (Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal protection equipment: Eye Protection: Safety glasses Compatible chemical-resistant gloves **Protective Gloves:** Other Protective Clothing: Lab coat NIOSH approved respirator, as conditions warrant. **Respiratory Equipment** (Specify Type): Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling. No data available.



SAFETY DATA SHEET EP Receptor Assay Prostaglandin E2 Positive

Control

9.1		Section 9. Physical and Chemical Properties ysical and Chemical Properties				
9.1	-	ysical and Chemical Properties				
	Physical States:					
		[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A solution in DMSO				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	89.00 C Method Used: Closed Cup				
	Evaporation Rate:	No data.				
	Flammability (solid, gas)): No data available.				
	Explosive Limits:	LEL: 3.5% at 25.0 C UEL: 42.0% at 25.0 C				
	Vapor Pressure (vs. Air	or mm 0.37 MM_HG at 20.0 C				
	Hg):					
	Vapor Density (vs. Air =	1): No data.				
	Specific Gravity (Water =	= 1): No data.				
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	215.00 C No data.				
	Decomposition Tempera					
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & We	eight: C20H32O5 352.5				
		Section 10. Stability and Reactivity				
0.4	Desethelter	· · ·				
0.1	Reactivity:	No data available.				
0.2	Stability:	Unstable [] Stable [X]				
0.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
0.4	Conditions To Avoid:	heat, flames and sparks				
0.5	Incompatibility - Materia					
	To Avoid:	acid chlorides				
		alkali metals				
		bases				
		phosphorus halides				
		strong acids				
		strong oxidizing agents				
		strong reducing agents				
0.6	Hazardous	carbon dioxide				
	Decomposition or	carbon monoxide				
	Byproducts:	sulfur oxides				



EP Receptor Assay Prostaglandin E2 Positive Control Supe

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Section 11. Toxicological Information 11.1 The toxicological effects of this compound have not been thoroughly studied. Information on DMSO - Toxicity Data: Oral LD50 (rat): 14,500 mg/kg; Skin LD50 (rat): 40,000 mg/kg; Oral LD50 **Toxicological Effects:** (mouse): 7,920 mg/kg; Skin LD50 (mouse): 50,000 mg/kg; Skin TDLO (woman): 1,800 mg/kg; Inhalation LC50 (rat): >1,600 mg/m3 (4h); DMSO - Irritation Data: Eyes (rabbit): 100 mg mild; Skin (rabbit): 500 mg (24h) mild; Prostaglandin E2 - Toxicity Data: Oral LD50 (rat): 500 mg/kg; Oral LD50 (mouse): 750 mg/kg; Subcutaneous LD50 (rat): 31.6 mg/kg; Intravenous LD50 (rat): 59.5 mg/kg; Subcutaneous TDLO (mouse): 20 ig/kg (16D Preg); Intravenous TDLO (woman): 16,800 ig/kg (10W Preg); DMSO - Investigated as a mutagen, reproductive effector, and tumorigen. **Chronic Toxicological** Prostaglandin E2 - Investigated as a mutagen and teratogen. Presumed human reproductive Effects: toxicant. May cause reproductive disorders. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. DMSO RTECS Number: PV6210000 Prostaglandin E2 RTECS Number: UK8000000 Carcinogenicity: NTP? No **OSHA Regulated? No** IARC Monographs? No CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH **OSHA** Prostaglandin E2 363-24-6 n.a. n.a. n.a. n.a. 67-68-5 Dimethyl sulfoxide, anhydrous n.a. n.a. n.a. n.a. Section 12. Ecological 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:** 12.3 **Bioaccumulative** No data available. Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 13.1 Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Combustible liquid, n.o.s. **DOT Hazard Class:** UN/NA Number: NA1993 Ш **Packing Group:** 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. **UN Number:** 1993 **Packing Group:** Ш Hazard Class:

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EP Receptor Assay Prostaglandin E2 Positive

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AIR TRANSPORT (ICAO/IATA): 14.3

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information:

Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.

Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

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)
363-24-6	Prostaglandin E2	No	No	No
67-68-5	Dimethyl sulfoxide, anhydrous	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EPA o	r State Lists	
363-24-6	Prostaglandin E2	CAA HAP,ODC: PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA
67-68-5	Dimethyl sulfoxide, anhydrous	CAA HAP,ODC: Inventory; CA P		: No; TSCA: Yes -

Section 16. Other Information

Revision Date:

No data available. Additional Information About

04/23/2017

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.



EP4 Receptor (human) Reverse Transfection Strip

Plate

		accor	rding to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8		
		Section 1. Ic	lentification of the Substar	nce/Mixture and of	the Company/Ur	ndertaking		
1.1	Product C	Code:	601391					
	Product N	lame:	EP4 Receptor (human) R	Reverse Transfection	Strip Plate			
.2	Relevant identified uses of the substance or mixture and uses advised against:							
		t identified uses:	For research use only, no		-			
1.3	Details of the Supplier of the Safety Data Sheet:							
-	Company Name: Cayman Chemical Company							
			1180 E. Ellsworth Rd.					
	Wab ait	e address:	Ann Arbor, MI 48108					
	Informa		www.caymanchem.com Cayman Chemical Comp	any	+1 (73/	4)971-3335		
1.4		cy telephone num		any	+1 (75-	+jon 1-0000		
1.4	-	ncy Contact:	CHEMTREC Within USA	and Canada:	+1 (80)	0)424-9300		
			CHEMTREC Outside US			3)527-3887		
			Section 2. Ha	zarde Identific	ration			
2.1	Clossifier	ation of the Substa						
2.1	Label Ele		ance of mixture.					
			News					
	GHS Signal Word: None							
	GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
		GHS Precaution Phrases:						
No phrases apply. GHS Response Phrases:								
	No phra	ses apply.						
	GHS St	orage and Dispos	al Phrases:					
			or Storage and Section 13 for	-				
2.3			Material may be irritating to the			piratory tract.		
	Effects a		May be harmful by inhalation May cause eye, skin, or resp	•	•			
						been thoroughly investigated		
					-			
		Secil	on 3. Composition	1		1		
					EC No./			
CAS RTE		Hazardous Compo REACH Registratio	onents (Chemical Name)/ on No.	Concentration	EC Index No.	GHS Classification		



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EP4 Receptor (human) Reverse Transfection Strip

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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	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 raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	hgTransfer 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:	



SAFETY DATA SHEET EP4 Receptor (human) Reverse Transfection Strip

Cay	man	Plate	Revision: 03/10/2017				
8.2	Exposure Controls:						
8.2.1	Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering concerning below recommended exposure limits.	ontrols to control airborn				
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/Maintenan Do not take internally.						
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyew Wash thoroughly after handling. No data available.	vash and a safety showe				
	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)	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 =	I): No data.					
	Specific Gravity (Water =	1): No data.					
	Solubility in Water:	No data.					
	Octanol/Water Partition Coefficient:	No data.					
	Autoignition Pt:	No data.					
	Decomposition Tempera	ture: No data.					
	Viscosity:	No data.					
9.2	Other Information						
0.2	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	t.				
	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 form				



Decomposition or

SAFETY DATA SHEET EP4 Receptor (human) Reverse Transfection Strip

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Byproducts: Section 11. Toxicological Information 11.1 Information on The toxicological effects of this product have not been thoroughly studied. **Toxicological Effects:** CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA EP4 Receptor (human) Reverse Transfection Strip Plate NA n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 **Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 No data available. Persistence and **Degradability:** No data available. 12.3 **Bioaccumulative** Potential: 12.4 Mobility in Soil: No data available. Results of PBT and vPvB No data available. 12.5 assessment: No data available. 12.6 Other adverse effects: Section 13. Disposal Considerations Dispose in accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. **DOT Hazard Class: UN/NA Number:** 14.1 LAND TRANSPORT (European ADR/RID): 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) EP4 Receptor (human) Reverse Transfection NA No No No Strip Plate CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists EP4 Receptor (human) Reverse Transfection CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA NA PROP.65: No Strip Plate

SAFETY DATA SHEET EP4 Receptor (human) Reverse Transfection Strip

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CHIMICAL	Plate
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:	03/10/2017
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.