

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

		acc	ording to Regulation (EC) No. 190	7/2006 as amended by	r (EC) No. 1272/200	8				
		Section 1.	Identification of the Substan	ce/Mixture and of t	the Company/Ur	ndertaking				
1.1	Product Code:400012Product Name:96-Well Cover Sheet									
1.2										
		ant identified uses		-	-					
1.3	Details	of the Supplier of t	the Safety Data Sheet:							
	Comp	oany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any						
	Web s	site address:	www.caymanchem.com							
	Inform	nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335				
1.4	Emerge	ency telephone nur	nber:							
	Emer	gency Contact:	CHEMTREC Within USA		-	0)424-9300				
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887				
			Section 2. Haz	zards Identific	cation					
2.1	Classifi	ication of the Subs	tance or Mixture:							
2.2	Label E	lements:								
	GHS	Signal Word:	None							
	GHS	GHS Hazard Phrases:								
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.									
	GHS	Precaution Phrase	s:							
	No ph	rases apply.								
		Response Phrases	:							
	-	rases apply.								
		Storage and Dispo								
			for Storage and Section 13 for	•						
2.3		se Human Health	Material may be irritating to the May be harmful by inhalation			piratory tract.				
	Enects	and Symptoms:	May cause eye, skin, or resp	-	-					
			• • •			been thoroughly investigated.				
		Soct	ion 3. Composition	/Information (	on Ingradia	ote				
		1	-			1				
CAS RTE	3 # / CS #	Hazardous Comp REACH Registrat	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification				
NA NA		96-Well Cover Sheet	t	100.0 %	NA NA	No data available.				
		•		•	•	•				
						B4				
						Multi-region form				



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

		Section 4	4. First Aid Measur	es	
4.1	Description of First Aid Measures:				
	In Case of Inhalation:	Remove to fresh air. I Get immediate medica	f not breathing, give artificial re al attention.	espiration or give oxygen by	trained personnel.
	In Case of Skin Contact:	-	n with soap and plenty of wate attention if symptoms occur. V		move contaminated
	In Case of Eye Contact:	Hold eyelids apart and and tested by medical	d flush eyes with plenty of wate I personnel.	er for at least 15 minutes. Ha	ive eyes examined
	In Case of Ingestion:		water provided person is cons Get medical attention. Do NOT		
		Section 5.	Fire Fighting Meas	sures	
5.1	Suitable Extinguishing Media:	Use water spray to co	foam, carbon dioxide, water, o pol fire-exposed containers.	or dry chemical spray.	
	Unsuitable Extinguishing Media:	g 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	-	elf-contained breathing appara protective gear to prevent conta		H approved or
		Section 6. Ac	cidental Release M	easures	
6.1	Protective Precautions,	-	eathing dust, and provide adec	-	
	• •		t, wear a NIOSH approved se		
6.2	Emergency Procedures:		conal protection (rubber boots,		uovei yivves).
6.2	Environmental Precautions:	i are sieps to avoid r	release into the environment, i	י שמוה נט טט 30.	
6.3	Methods and Material Fo	r Contain spill and coll	ect, as appropriate.		
		-	al waste container for disposa	l in accordance with local rec	gulations.
		Section 7.	Handling and Stor	age	
7.1	Precautions To Be Taker in Handling:		fume/gas/mist/vapours/spray.	-	
7.2	Precautions To Be Taker	NKeep container tightly	/ closed.		
	in Storing:	Store in accordance v	with information listed on the p	roduct insert.	
	Sec	tion 8. Exposu	re Controls/Persona	al Protection	
8.1	Exposure Parameters:				
CAS	# Partial Chemical	I Name	Britain EH40	France VL	Europe
	NA 96-Well Cover Sh	neet	No data.	No data.	No data.
					Multi-region format



Revision: 08/01/2016

CAS # Partial Chemical Na		Partial Chemical	lame OSHA TWA AC			rsedes Revision: 04/20/2016 Other Limits
				No data.	No data.	No data.
3.2	NA	96-Well Cover She	96(			
.∠ 3.2.1	-	eering Controls		locuros, local oxbaust	ventilation, or other engineering	controls to control airborn
). <b>Z</b> . I	-	ation etc.):	-	ommended exposure l		
3.2.2	-	nal protection equip				
		otection:	Safety glasses			
	-	tive Gloves:		nical-resistant gloves		
		Protective Clothing	-			
		atory Equipment		respirator, as condition	ons warrant.	
	-	fy Type):		• •		
		Hygienic/Maintenan	Do not take inter	nally.		
		ctices:		-	al should be equipped with an ey	wewash and a safety showe
			Wash thoroughly	after handling.		
			No data available	Э.		
		S	ection 9 Pl	nysical and Ch	emical Properties	
9.1	Informa	ation on Basic Phys		-		
		cal States:	[]Gas	-	Solid	
	-	rance and Odor:		Cover Sheet		
		g Point:	No data.			
		g Point:	No data.			
	Flash I	Pt:	No data.			
	Evapo	ration Rate:	No data.			
	Flamm	nability (solid, gas):	No data a	vailable.		
	Explos	sive Limits:	LEL: No	data.	UEL: No data.	
	Vapor	Pressure (vs. Air o	mm No data.			
	Hg):					
	Vapor	Density (vs. Air = 1	): No data.			
	-	ic Gravity (Water =	-			
	Solubi	lity in Water:	No data.			
	Autoig	nition Pt:	No data.			
9.2	Other I	nformation				
	Percer	nt Volatile:	No data.			
			Section	10. Stability a	nd Reactivity	
0.1	Reacti	vity:	No data available	Э.		
0.2	Stabili	ty:	Unstable [ ]	Stable [ X ]		
0.3	Stabili	ty Note(s):	Stable if stored in	n accordance with info	rmation listed on the product ins	ert.
	Polym	erization:	Will occur [ ]	Will not occur [ X ]		
0.4	Condit	tions To Avoid:	No data available	Э.		
0.5	Incom	patibility - Materials	No data available	Э.		
	To Ave	oid:				
0.6	Hazaro	dous	No data available	Э.		
	Decom	position or				
	Bypro	ducts:				
						Multi-region form



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

Information on       The toxicological effects of this product have not been thoroughly studied.         Toxicological Effects:       Toxicological Effects:										
CAS # Hazardous Components (Chemical Name)				NTP	IARC	ACGIH	OSHA			
	NA	96-Well Cover Sh	neet	n.a.	n.a.	n.a.	n.a.			
		•	Section 12. Ecol	ogical Informa	ition	·	•			
12.1	Toxicity	/:	Avoid release into the environr	-						
	-		Runoff from fire control or dilut	ion water may cause	pollution.					
12.2	Persiste	ence and	No data available.							
	Degrad	ability:								
12.3	Bioaccu	umulative	No data available.							
	Potentia	al:								
12.4	Mobility	y in Soil:	No data available.							
12.5	Results	of PBT and vPvB	No data available.							
	assessi									
12.6	Other a	dverse effects:	No data available.							
			Section 13. Dispo	sal Considera	tions					
13.1	Waste I	Disposal Method:	Dispose in accordance with loc	cal, state, and federal	regulations.					
			Section 14. Trar	nsport Informa	ition					
14.1	LAND	TRANSPORT (US I	DOT):							
D	OT Prop	er Shipping Name:	Not dangerous goods.							
	OT Haza		5 5							
U	N/NA Nu	mber:								
14.1	LAND	TRANSPORT (Euro	opean ADR/RID):							
Α	DR/RID S	Shipping Name:	Not dangerous goods.							
U	N Numbe	er:								
Н	lazard Cla	ass:								
14.3	AIR TR	ANSPORT (ICAO/	ATA):							
IC		A Shipping Name:	Not dangerous goods.							
Addi	tional Tra	insport	Transport in accordance with	ocal, state, and feder	al regulations.					
Infor	mation:									
			Section 15. Regu	latory Informa	ation					
EPA	SARA (S	uperfund Amendm	ents and Reauthorization Act							
CAS	#		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)			
	NA	96-Well Cover Sh	neet	No	No	No				
CAS # Hazardous Components (Chemical Name)				Other US EPA or	State Lists					
	NA 96-Well Cover Sheet		neet		No; CWA NPDE	ES: No; TSCA	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA			
				PROP.65: No						



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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.		



#### **SAFETY DATA SHEET** 96-Well Solid Plate (white)

Revision: 05/23/2016 Supersedes Revision: 07/10/2013

		accord	ding to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8
		Section 1. Ide	entification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Product		400013 96-Well Solid Plate (white	e)		
1.2	Relevan	t identified uses of t	he substance or mixture a	nd uses advised ag	jainst:	
	Releva	ant identified uses:	For research use only, no	ot for human or veteri	inary use.	
1.3	Details of	of the Supplier of the	e Safety Data Sheet:			
	Comp	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 (734	4)971-3335
1.4	Emerge	ncy telephone numb	er:			
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887
			Section 2. Haz	zards Identific	ation	
2.1	Classifi	cation of the Substa	nce or Mixture:			
2.2	Label El	ements:				
	GHS S	Signal Word:	None			
		lazard Phrases:				
	Based	on evaluation of curre	ently available data this subs	stance or mixture is n	ot classifiable ac	cording to GHS.
	GHS F	Precaution Phrases:				
	No ph	rases apply.				
	GHS F	Response Phrases:				
	No ph	rases apply.				
	GHS S	Storage and Disposa	I Phrases:			
	Please	e refer to Section 7 for	Storage and Section 13 for	Disposal information	ı.	
2.3	Advers		laterial may be irritating to the			piratory tract.
	Effects	, ,	lay be harmful by inhalation		•	
			lay cause eye, skin, or resp to the best of our knowledge			been thoroughly investigated.
					-	
		Sectio	on 3. Composition	/Information c	on Ingredie	nts
CAS RTE	;#/ CS#	Hazardous Compor REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		96-Well Solid Plate (bla	ack or white)	100.0 %	NA NA	No data available.
						Multi-region format



## **SAFETY DATA SHEET** 96-Well Solid Plate (white)

Revision: 05/23/2016 Supersedes Revision: 07/10/2013

			Section 4	4. First Aid Measure	es	
4.1	Descrip	tion of First Aid				
	Measur	es:				
	In Case	of Inhalation:	Remove to fresh air. I	f not breathing, give artificial re	espiration or give oxygen by	trained personnel.
			Get immediate medica	al attention.		
	In Case	of Skin Contact:	Immediately wash ski	n with soap and plenty of wate	r for at least 20 minutes. Re	move contaminated
			clothing. Get medical	attention if symptoms occur. W	lash clothing before reuse.	
	In Case	of Eye Contact:		d flush eyes with plenty of wate	er for at least 20 minutes. Ha	ve eyes examined
			and tested by medical			
	In Case	of Ingestion:		water provided person is cons	• • •	•
			medical personnel.	Get medical attention. Do NOT	induce vomiting unless dire	cted to do so by
<b></b>						
			Section 5.	Fire Fighting Meas	ures	
5.1	Suitable	e Extinguishing		foam, carbon dioxide, water, c	or dry chemical spray.	
	Media:		Use water spray to co	ool fire-exposed containers.		
		ble Extinguishing	A solid water stream	may be inefficient.		
	Media:					
5.2		-	<b>d</b> No data available.			
	Hazards	5:	No dete evellete			
			No data available.			
	Flash P		No data.	UEL No doto		
	-	ve Limits:	LEL: No data.	UEL: No data		
<b>F</b> 0	-	nition Pt:	No data.	olf anotained hypothing annous	tue measure demand (NIIOC	
5.3	Fire Fig	inting instructions	-	elf-contained breathing appara rotective gear to prevent conta		
			Section 6. Acc	cidental Release Me	easures	
6.1	Protect	ive Precautions,	Avoid raising and bre	eathing dust, and provide adeq	uate ventilation.	
	Protect	ive Equipment and	<b>d</b> As conditions warran	t, wear a NIOSH approved sel	f-contained breathing appara	atus, or respirator,
	Emerge	ency Procedures:	and appropriate pers	onal protection (rubber boots,	safety goggles, and heavy re	ubber gloves).
6.2	Environ	nmental	Take steps to avoid r	elease into the environment, if	safe to do so.	
	Precaut	tions:				
6.3			r Contain spill and coll			
		ment and Cleanir	ig I ransfer to a chemic	al waste container for disposal	in accordance with local reg	julations.
	Up:					
			Section 7.	Handling and Stor	age	
7.1	Precaut	tions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapours/spray.		
	in Hand	lling:	Avoid prolonged or re	epeated exposure.		
7.2	Precaut	tions To Be Taken	Keep container tightly			
	in Stori	ng:	Store in accordance v	with information listed on the p	roduct insert.	
		Sec	tion 8. Exposu	re Controls/Persona	al Protection	
8.1	Exposu	re Parameters:				
CAS	-	Partial Chemical	Name	Britain EH40	France VL	Europe
	NA	96-Well Solid Plat		No data.	No data.	No data.
		+		ļ	ļ	Į]
						Multi-region format

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## **SAFETY DATA SHEET** 96-Well Solid Plate (white)

Revision: 05/23/2016 Supersedes Revision: 07/10/2013

CAS	<u> </u>	Partial Chaminal	Name			\\/ A			vision: 07/10/2013
CAS	#	Partial Chemical			OSHA T	WA	ACGIH TWA		Other Limits
	NA	96-Well Solid Plate	e (black or v	/hite)	No data.		No data.		No data.
8.2	•	re Controls:							
8.2.1	Enginee	ering Controls	-			exhaust ventilation, o	or other engineering	g controls	to control airborn
	(Ventila	tion etc.):	levels belo	w recomm	mended exp	osure limits.			
8.2.2	Persona	al protection equip	oment:						
	Eye Pro	tection:	Safety glas	ses					
	Protecti	ive Gloves:	Compatible	) chemica	al-resistant o	gloves			
	Other P	rotective Clothing	:Lab coat						
	Respira	tory Equipment	NIOSH ap	proved re-	spirator, as	conditions warrant.			
	(Specify	/ Туре):							
	Work/H	ygienic/Maintenan	Do not tak	internall	ly.				
	ce Prac	tices:	Facilities s	oring or u	utilizing this	material should be	equipped with an e	yewash ar	nd a safety showe
			Wash thor	oughly aft	ter handling				
			No data av	ailable.					
		S	ection 9	. Phv	sical an	d Chemical F	Properties		
9.1	Informat						10001100		
J. I		tion on Basic Phys Il States:			[] Liquid	[ X ] Solid			
	•	ance and Odor:	L I Pla		[] Liquia	[ X ] 3010			
	Melting			data.					
	Boiling			data.					
	Flash P			data.					
		ation Rate:		data.					
		ability (solid, gas):		data avai	ilahle				
		ve Limits:		L: No dat		LIEI · I	No data.		
	-	Pressure (vs. Air o		data.		022.			
	Hg):			data.					
		Density (vs. Air = 1	): No	data.					
		c Gravity (Water =		data.					
	-	ty in Water:	-	data.					
		-		data.					
• •	-	hition Pt:	NO	uala.					
9.2		formation							
	Percent	Volatile:	No	data.					
			Sec	ion 10	). Stabil	ity and Reac	tivity		
10.1	Reactiv	ity:	No data av	ailable.					
10.2	Stability	/:	Unstable [	] St	able [ X ]				
10.3	Stability	/ Note(s):	Stable if st	ored in ac	ccordance w	vith information liste	d on the product ins	sert.	
	Polyme	rization:	Will occur	] V	Vill not occu	r [ X ]			
10.4	Conditio	ons To Avoid:	No data av	ailable.					
10.5	Incomp	atibility - Materials	No data av	ailable.					
-	To Avoi	-							
10.6	Hazardo		No data av	ailable.					
		position or							
	Byprod								
	-78.00								
									Multi-region form



## **SAFETY DATA SHEET** 96-Well Solid Plate (white)

	Revision:	05/23/2016
Supersedes	Revision:	07/10/2013

		Hazardous Com	ponents (Chemical Name)	NTD						
			,	Toxicological Effects:         CAS #       Hazardous Components (Chemical Name)       NTP       IARC       ACGIH       OSHA						
2.1		96-Well Solid Pla	te (black or white)	n.a.	n.a.	n.a.	n.a.			
2.1		ļ	Section 12. Ecol	ogical Informa	ntion					
	Toxicity		Avoid release into the environ	<u> </u>						
	loxicity	•	Runoff from fire control or dilut		pollution.					
2.2	Persiste	nce and	No data available.							
	Degrada	bility:								
2.3	Bioaccu	mulative	No data available.							
	Potentia	l:								
2.4	Mobility	in Soil:	No data available.							
2.5	Results	of PBT and vPvB	No data available.							
	assessn	nent:								
2.6	Other ac	lverse effects:	No data available.							
			Section 13. Dispo	sal Considera	ations					
3.1	Waste D	isposal Method:	Dispose in accordance with loo	cal, state, and federal	regulations.					
			Section 14. Trar	nsport Informa	ation					
14.1	LAND T	RANSPORT (US I	DOT):	•						
DC		r Shipping Name:	-							
	OT Hazar									
UN	N/NA Nun	nber:								
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):							
AC	DR/RID S	hipping Name:	Not dangerous goods.							
UN	N Numbe	r:								
На	azard Cla	SS:								
14.3		ANSPORT (ICAO/I	-							
		Shipping Name:	Not dangerous goods.							
	ional Trar	nsport	Transport in accordance with	ocal, state, and feder	al regulations.					
ntorm	nation:		• • • = =							
			Section 15. Regu	•	ation					
		1	ents and Reauthorization Act							
CAS #			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ		3 (TRI)			
	NA	96-Well Solid Pla	te (black or white)	No	No	No				
CAS #			ponents (Chemical Name)	Other US EPA or						
NA 96-Well Solid Plate (black or white)		96-Well Solid Pla	te (black or white)	CAA HAP,ODC: PROP.65: No	No; CWA NPDE	S: No; TSCA	: No; CA			



## **SAFETY DATA SHEET** 96-Well Solid Plate (white)

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CHIMICAL	Supersedes Revision: 07/10/2013
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:	
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: 06/26/2016

7			
		ling to Regulation (EC) No. 1907/2006 as amended by	
	Section 1. Ide	entification of the Substance/Mixture and of t	he Company/Undertaking
1	Product Code: Product Name:	600183 SEAP Substrate (Luminescence)	
2	Relevant identified uses of t	he substance or mixture and uses advised ag	jainst:
	Relevant identified uses:	For research use only, not for human or veter	inary use.
3	Details of the Supplier of the	e 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 numb	er:	
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identific	ation
1	Acute Toxicity: Oral, Categ Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic)	Category 3 Irritation, Category 2A Category 3	
2	Skin Corrosion/Irritation, ( Serious Eye Damage/Eye I Aquatic Toxicity (Acute), (	gory 4 Category 3 Irritation, Category 2A Category 3	
	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic) Label Elements:	gory 4 Category 3 Irritation, Category 2A Category 3 I, Category 3	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word:	gory 4 Category 3 Irritation, Category 2A Category 3	
	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic) Label Elements:	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 Warning	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases:	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 Warning	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 Warning	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 Warning Warning	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 Warning Warning	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases:	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 , Category 3 <i>Warning</i> ation. rritation. e. e with long lasting effects.	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 , Category 3 Warning ation. rritation. 2. 2. with long lasting effects.	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e	gory 4 Category 3 Irritation, Category 2A Category 3 A, Category 3 , Category 3 Warning Warning ation. rritation. e. a with long lasting effects. ghly after handling. environment.	ion
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glov	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 , Category 3 Warning ation. rritation. 2. 2. with long lasting effects.	ion}.
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glow GHS Response Phrases:	gory 4 Category 3 Irritation, Category 2A Category 3 A, Category 3 Warning ation. rritation. e. a with long lasting effects. ghly after handling. environment. es/protective clothing/eye protection/face protect	
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWED	gory 4 Category 3 Irritation, Category 2A Category 3 A, Category 3 , Category 3 Warning Warning ation. rritation. e. a with long lasting effects. ghly after handling. environment.	f you feel unwell.
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWED	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 , Category 3 Warning ation. rritation. ex with long lasting effects. ghly after handling. environment. es/protective clothing/eye protection/face protect D: Call a POISON CENTER or doctor/physician if	f you feel unwell.
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWED P305+351+338: IF IN EYES	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 , Category 3 Warning ation. rritation. ex with long lasting effects. ghly after handling. environment. es/protective clothing/eye protection/face protect D: Call a POISON CENTER or doctor/physician if	f you feel unwell.
	Skin Corrosion/Irritation, G Serious Eye Damage/Eye I Aquatic Toxicity (Acute), G Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H316: Causes mild skin irrita H319: Causes serious eye in H402: Harmful to aquatic life H412: Harmful to aquatic life GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWED P305+351+338: IF IN EYES to do. Continue rinsing. P330: Rinse mouth. P332+313: If skin irritation o	gory 4 Category 3 Irritation, Category 2A Category 3 , Category 3 , Category 3 Warning ation. rritation. ex with long lasting effects. ghly after handling. environment. es/protective clothing/eye protection/face protect D: Call a POISON CENTER or doctor/physician if	f you feel unwell.



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GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

 2.3 Adverse Human Health Causes serious eye irritation.
 Effects and Symptoms: Causes mild skin irritation. Harmful if swallowed. Harmful to aquatic life with long lasting effects. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

# Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
26628-22-8 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 alkaline phosphatase substrate	< 1.0 %	NA NA	No data available.
7732-18-5 ZC0110000	Water	>95.0 %	231-791-2 NA	No data available.

# Section 4. First Aid Measures

#### 4.1 Description of First Aid

Beceriptien er i net / tia		1
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.	



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			Section 5.	Fire Fighting Me	asures					
5.1	Suitable	Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.								
	Media:	Use water spray to cool fire-exposed containers.								
	Unsuita	ble Extinguishing	A solid water stream	may be inefficient.						
	Media:									
5.2	Flamma	able Properties an	<b>d</b> No data available.							
	Hazards	5:								
			No data available.							
	Flash P		No data.							
	-	ve Limits:	LEL: No data.	UEL: No da	ata.					
	-	nition Pt:	No data.							
5.3	Fire Fig	hting Instructions	-	elf-contained breathing app		NIOSH approved or				
				rotective gear to prevent co						
				cidental Release I						
6.1		ive Precautions,	• .	ors and provide adequate ve		, . ,				
				t, wear a NIOSH approved						
6.0	-	ency Procedures:		onal protection (rubber boo		avy rubber gloves).				
6.2	Environ Precaut		Take steps to avoid I	elease into the environmen	it, if sale to do so.					
6.3			Contain spill and coll	ect as appropriate						
0.0			-	al waste container for dispo	sal in accordance with loc	al regulations.				
	Up:		5	·		5				
	-		Contine 7	Llondling and Ct	01000					
	Duccou			Handling and St	<u> </u>					
7.1	in Hand		Avoid breathing dust/ Avoid prolonged or re	fume/gas/mist/vapours/spra	ay.					
7.2		-	Keep container tightly							
1.2	in Stori			with information listed on the	e product insert.					
		recautions:	Light sensitive.							
			-							
			tion 8. Exposu	re Controls/Perso	nal Protection					
8.1	Exposu	e Parameters:								
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe				
266	28-22-8	Sodium azide		TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3				
	NA	1,2-dioxetane-ene	9	No data.	No data.	No data.				
	NA	Tris Buffer		No data.	No data.	No data.				
	NA	Enhancer-450 alk substrate	aline phosphatase	No data.	No data.	No data.				
773	32-18-5	Water		No data.	No data.	No data.				
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits				
266	28-22-8	Sodium azide		No data.	CEIL: 0.29 mg/m3	No data.				
	NA	1,2-dioxetane-ene	<u> </u>	No data.	No data.	No data.				
[	NA	Tris Buffer		No data.	No data.	No data.				
	NA	Enhancer-450 alk	aline phosphatase	No data.	No data.	No data.				



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	man	1			Sup	ersedes Revision: 04/11/2016
		substrate				
-	2-18-5	Water		No data.	No data.	No data.
3.2	-	re Controls:				
3.2.1	-	ering Controls	•		entilation, or other engineerir	ig controls to control airborr
	=	ation etc.):		mended exposure lin	nits.	
8.2.2		al protection equi				
		otection:	Safety glasses			
		ive Gloves:	Compatible chemic	al-resistant gloves		
	Other P	Protective Clothing	g:Lab coat			
	-	atory Equipment	NIOSH approved re	espirator, as conditior	ns warrant.	
		у Туре):				
	Work/H	ygienic/Maintena	n Do not take internal	-		
	ce Prac	tices:	-	utilizing this material	should be equipped with an e	eyewash facility and a safet
			shower.	. <b></b>		
			Wash thoroughly af	ter handling.		
			No data available.			
		S	ection 9. Phy	vsical and Che	emical Properties	
9.1		-	sical and Chemical	-		
	-	al States:		[X]Liquid []S	olid	
	• •	ance and Odor:	A solution			
	Melting		No data.			
	Boiling	Point:	No data.			
	Flash P		No data.			
	-	ation Rate:	No data.			
		ability (solid, gas)				
	=	ive Limits:	LEL: No da	ta.	UEL: No data.	
	Vapor F Hg):	Pressure (vs. Air o	or mm No data.			
	Vapor [	Density (vs. Air = <sup>-</sup>	1): No data.			
	Specifie	c Gravity (Water =	<b>1):</b> No data.			
	Solubili	ity in Water:	No data.			
	Autoigr	nition Pt:	No data.			
9.2	-	formation				
		t Volatile:	No data.			
				0. Stability an	d Reactivity	
10.1	Reactiv	<i></i>	No data available.			
		-		table [ X ]		
10.2 10.3	Stability Stability	y: y Note(s):		table [ X ]	nation listed on the product ir	sert
10.3	-				nation insted on the product if	1301 L.
	•	erization:		Vill not occur [ X ]		
10.4		ons To Avoid:	No data available.			
10.5	-	atibility - Material				
	Το Ανο	ia:	bases	ante		
			strong reducing age			
10 6	Hazard	0.16	strong oxidizing age carbon dioxide	51113		
10.6	nazard	ous				
			carbon monoxide			



Multi-region format

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	=	osition or	hydrogen chloride					
Byprod		ICTS:	nitrogen oxides					
			phospines phosphorus oxides					
				ool Inform	otion			
11.1	Informat	ion on	Section 11. Toxicologi The toxicological effects of this produ			udiod		
		ion on gical Effects:	Bovine Serum Albumin - Toxicity Dat					
	TOXICOIC		Sodium Azide - Toxicity Data: Oral L	-	-		mg/kg; Oral	
			LDLO (man): 29 mg/kg;		0,	( )	0 0,	
	Chronic	Toxicological	Bovine Serum Albumin - Investigated	as a natural pro	oduct.			
	Effects:		Sodium Azide - Investigated as an ag	ricultural chemio	cal, drug, muta	gen, reproduct	tive effector, a	
			tumorigen.					
			Only select Registry of Toxic Effects		stances (RTE	CS) data is pre	sented here.	
			See actual entry in RTECS for compl Bovine Serum Albumin RTECS Num					
			Sodium Azide RTECS Number: VY8					
Carci	nogenicity	/:	NTP? No IARC Monographs? N		egulated? No			
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
266	28-22-8	Sodium azide		n.a.	n.a.	A4	n.a.	
	NA	1,2-dioxetane-ene	9	n.a.	n.a.	n.a.	n.a.	
	NA	Tris Buffer		n.a.	n.a.	n.a.	n.a.	
	NA	Enhancer-450 alk	aline phosphatase substrate	n.a.	n.a.	n.a.	n.a.	
773	32-18-5	Water		n.a.	n.a.	n.a.	n.a.	
		·	Section 12. Ecologic	al Informat	ion			
12.1	Toxicity		Avoid release into the environment.					
	-		Runoff from fire control or dilution wa	ter may cause p	ollution.			
12.2	Persiste	nce 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:						
	Other ad	lverse effects:	No data available.					
12.6			Section 13. Disposal	Considerat	ions			
12.6								
12.6 13.1	Waste D	isposal Method:	Dispose in accordance with local, sta	te, and federal r	egulations.			



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2 CHIMICAL				Cuperser			
Section 14. Transport Information							
14.1 LAND T	14.1 LAND TRANSPORT (US DOT):						
DOT Prope	r Shipping Name	: Not dangerous goods.					
	DOT Hazard Class:						
UN/NA Nun							
	RANSPORT (Euro						
UN Number	hipping Name:	Not dangerous goods.					
Hazard Clas	-						
	ANSPORT (ICAO/	IATA):					
	Shipping Name:	Not dangerous goods.					
Additional Trar		Transport in accordance with lo	cal, state, and feder	al regulations.			
Information:	-			C C			
		Section 15. Regul	atory Informa	ation			
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
26628-22-8	Sodium azide		Yes 500 LB	Yes 1000 LB	Yes		
NA	1,2-dioxetane-en	е	No	No	No		
NA	Tris Buffer		No	No	No		
NA		kaline phosphatase substrate	No	No	No		
7732-18-5	Water		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or 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-en	e	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 all	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 Info Statement:	ormation	This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR	1910.1200 and Regu	lation (EC)		
		Section 16. Oth	er Informatio	n			
Revision Date:		06/26/2016					
Additional Infor	mation About	No data available.					
This Product:							
Company Polic	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their ow their particular purposes.	er, we make no war to such information	ranty of merchantabilit and we assume no lia	ty or any other warranty, ability resulting from its		



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	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking						
1.1	Product	Code:	601201				
	Product	Name:	FFAR4 Reverse Transfe	ction Strip Plate			
1.2	Relevan	t identified uses of th	ne substance or mixture a	nd uses advised ag	gainst:		
	Releva	ant 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			
	Web s	ite address:	www.caymanchem.com				
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335	
1.4	Emerge	ncy telephone numbe	er:				
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:		0)424-9300	
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887	
			Section 2. Haz	zards Identific	ation		
2.1	Classifie	cation of the Substan	ce or Mixture:				
2.2	Label El	ements:					
GHS Signal Word: None							
	GHS H	lazard Phrases:					
	Based	on evaluation of curre	ently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.	
	GHS F	Precaution Phrases:					
		rases apply.					
		Response Phrases:					
	-	rases apply.	-				
		Storage and Disposal		Dian agal information			
2.3			Storage and Section 13 for aterial may be irritating to the section of the secti	•		niratory tract	
2.5			ay be harmful by inhalation				
			ay cause eye, skin, or resp		•		
		Т	o the best of our knowledge	, the toxicological pro	operties have not	been thoroughly investigated.	
		Sectio	n 3. Composition	/Information c	on Ingredier	nts	
CAS RTE	#/ CS #	Hazardous Compon REACH Registratior	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification	
NA NA		FFAR4 Reverse Transfe	ection Strip Plate	100.0 %	NA NA	No data available.	
1							
1							



		Section 4	4. First Aid Measure	es	
4.1	Description of Fi	rst Aid			
	Measures:				
	In Case of Inhala	tion: Remove to fresh air. I Get immediate medica	f not breathing, give artificial re al attention.	spiration or give oxygen by	trained personnel.
	In Case of Skin C	Contact: Immediately wash ski	n with soap and plenty of wate	r for at least 15 minutes. Rei	move contaminated
		-	attention if symptoms occur. W		
	In Case of Eye C	ontact: Hold eyelids apart and	d flush eyes with plenty of wate	er for at least 15 minutes. Ha	ive eyes examined
		and tested by medica	l personnel.		
	In Case of Ingest	tion: Wash out mouth with	water provided person is conse	cious. Never give anything b	y mouth to an
		unconscious person. medical personnel.	Get medical attention. Do NOT	induce vomiting unless dire	cted to do so by
		Section 5.	Fire Fighting Meas	ures	
5.1	Suitable Extingu	ishing Use alcohol-resistant	foam, carbon dioxide, water, c	r dry chemical spray.	
	Media:	Use water spray to co	ool fire-exposed containers.		
	Unsuitable Exting	guishing A solid water stream	may be inefficient.		
	Media:				
5.2	-	erties andNo data available.			
	Hazards:				
		No data available.			
	Flash Pt:	No data.			
	Explosive Limits		UEL: No data.		
5.0	Autoignition Pt:	No data.	olf anotained hypothing announ	tue pressure demand (NIIOO	
5.3	Fire Fighting inst	tructions: As in any fire, wear so equivalent), and full p	rotective gear to prevent containing		
		Section 6. Ac	cidental Release Me	easures	
6.1	Protective Preca		eathing dust, and provide adeq		
	Protective Equip	ment and As conditions warran			
	Emergency Proc		onal protection (rubber boots,		ubber gloves).
6.2	Environmental Precautions:	Take steps to avoid r	elease into the environment, if	safe to do so.	
6.3	Methods and Ma	terial For Contain spill and coll	ect, as appropriate.		
	Containment and Up:	<b>t Cleaning</b> Transfer to a chemic	al waste container for disposal	in accordance with local reg	gulations.
		Section 7.	Handling and Stor	age	
7.1	Precautions To E	Be Taken Avoid breathing dust/		-	
	in Handling:	Avoid prolonged or re	epeated exposure.		
7.2	Precautions To E	Be Taken Keep container tightly	v closed.		
	in Storing:	Store in accordance v	with information listed on the p	oduct insert.	
		Section 8. Exposu	re Controls/Persona	al Protection	
8.1	Exposure Parame	eters:			
CAS	# Partial C	Chemical Name	Britain EH40	France VL	Europe
	NA FFAR4 F	Reverse Transfection Strip	No data.	No data.	No data.
					Multi-region format

		Plate				
CAS	# Partial Chemical Name		me	OSHA TWA	ACGIH TWA	Other Limits
	NA	FFAR4 Reverse Trar Plate	sfection Strip	No data.	No data.	No data.
.2	Exposu	re Controls:		4		
.2.1	Engine	ering Controls	se process enclos	ures, local exhaust vent	tilation, or other engineering co	ontrols to control airbo
	(Ventila	tion etc.): le	vels below recomi	mended exposure limits		
.2.2	Person	al protection equipm	ent:			
	Eye Pro	otection: Sa	afety glasses			
	Protect	ive Gloves: Co	ompatible chemica	al-resistant gloves		
	Other P	Protective Clothing: La	ab coat			
	Respira	atory Equipment N	OSH approved re	spirator, as conditions v	varrant.	
	(Specify	у Туре):				
	Work/H	ygienic/Maintenan De	o not take internal	ly.		
	ce Prac		-	-	ould be equipped with an eyev	vash and a safety show
			ash thoroughly af	ter handling.		
		N	o data available.			
		Sec	tion 9. Phy	sical and Chem	nical Properties	
.1	Information	tion on Basic Physica	al and Chemical	Properties		
	Physica	al States:	[] Gas	[ ] Liquid [ X ] Solic	ł	
	Appear	ance and Odor:	Plate			
	Melting	Point:	No data.			
	Boiling	Point:	No data.			
	Flash P	't:	No data.			
	Evapora	ation Rate:	No data.			
		ability (solid, gas):	No data ava			
	-	ve Limits:	LEL: No da	ta.	UEL: No data.	
	-	Pressure (vs. Air or m	m No data.			
	Hg):		•• • •			
	-	Density (vs. Air = 1):	No data.			
	-	c Gravity (Water = 1):				
		ity in Water:	No data.			
	Autoigr	nition Pt:	No data.			
9.2	Other In	formation				
	Percent	t Volatile:	No data.			
			Section 10	D. Stability and	Reactivity	
0.1	Reactiv	rity: No	o data available.	-	-	
0.2	Stability	<b>y:</b> Ui	nstable [ ] St	able [ X ]		
0.3	Stability	y Note(s): St	able if stored in a	ccordance with informat	ion listed on the product insert	I.
	Polyme	rization: W	ill occur [ ] V	Vill not occur [ X ]		
0.4	Conditi	ons To Avoid: No	o data available.			
0.5	Incomp	atibility - Materials No	o data available.			
	To Avoi	-				
0.6	Hazardo	ous No	o data available.			
	Decom	position or				
						Multi-region for



			Section 11. Toxico	ological Inform	mation		
11.1	Informa		The toxicological effects of this	s product have not b	een thoroughly st	udied.	
	Toxicol	ogical Effects:					
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	NA	FFAR4 Reverse	Transfection Strip Plate	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecol	ogical Inform	ation		
2.1	Toxicity	/:	Avoid release into the environment	nent.			
			Runoff from fire control or dilut	ion water may cause	e pollution.		
12.2		ence and	No data available.				
	Degrad						
2.3		umulative	No data available.				
	Potentia						
2.4	-	/ in Soil:	No data available.				
2.5		of PBT and vPvB	No data available.				
	assessi		No. data ang labia				
2.6	Other a	dverse effects:	No data available.				
			Section 13. Dispo				
3.1	Waste I	Disposal Method:	Dispose in accordance with loo	cal, state, and federa	al regulations.		
			Section 14. Trar	nsport Inform	ation		
14.1	LAND 1	FRANSPORT (US I	DOT):				
D	OT Prope	er Shipping Name:	Not dangerous goods.				
D	OT Haza	rd Class:					
U	N/NA Nu	mber:					
14.1	LAND 1	<b>FRANSPORT</b> (Euro	opean ADR/RID):				
Α	DR/RID S	Shipping Name:	Not dangerous goods.				
U	N Numbe	er:					
Н	azard Cla	ass:					
14.3		ANSPORT (ICAO/					
		Shipping Name:	Not dangerous goods.				
	tional Tra	nsport	Transport in accordance with	ocal, state, and fede	eral regulations.		
Infor	mation:						
			Section 15. Regu	latory Inform	ation		
	•	-i	ents and Reauthorization Act	,			
CAS			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ		3 (TRI)
	NA	FFAR4 Reverse	Transfection Strip Plate	No	No	No	
CAS	#		ponents (Chemical Name)	Other US EPA o			
NA F		FFAR4 Reverse	Transfection Strip Plate	CAA HAP,ODC	No; CWA NPDE	S: No; TSCA	: No; CA



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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:	04/08/2016					
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.					



Revision: 04/08/2016

		ording to Regulation (EC) No. 1907/2006 as amended by (					
	Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking				
1	Product Code: 601202						
	Product Name:	FFAR4 Assay GSK137647A Positive Control					
	Synonyms:	4-methoxy-N-(2,4,6-trimethylphenyl)-benzenes	ulfonamide;				
2	Relevant identified uses o	of the substance or mixture and uses advised aga	ainst:				
	Relevant identified uses	: For research use only, not for human or veterin	hary use.				
3	Details of the Supplier of t	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	Emergency telephone nur	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				
2	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements:	n, Category 2 re Irritation, Category 2A					
2	Serious Eye Damage/Ey						
2	Serious Eye Damage/Ey						
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases:	e Irritation, Category 2A Warning					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid.	e Irritation, Category 2A Warning					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation	warning Marning					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye	warning Marning on. e irritation.					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase	warning Warning on. e irritation. s:					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h	warning Warning e irritation. e irritation. <b>s:</b> eat/sparks/open flames/hot surfaces} No smoking.					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thore	warning Warning on. e irritation. <b>s:</b> eat/sparks/open flames/hot surfaces} No smoking. oughly after handling.					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thorow P280: Wear {protective gl	warning Warning on. e irritation. s: eat/sparks/open flames/hot surfaces} No smoking. oughly after handling. oves/protective clothing/eye protection/face protection					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thorow P280: Wear {protective glanged}	warning Warning on. e irritation. s: eat/sparks/open flames/hot surfaces} No smoking. oughly after handling. oves/protective clothing/eye protection/face protection					
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thorow P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: A	warning Warning on. e irritation. s: eat/sparks/open flames/hot surfaces} No smoking. oughly after handling. oves/protective clothing/eye protection/face protection	on}.				
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thorow P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: A	Warning Warning on. e irritation. s: eat/sparks/open flames/hot surfaces} No smoking. oughly after handling. oves/protective clothing/eye protection/face protection wash with plenty of soap and water.	on}.				
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thorow P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: N P305+351+338: IF IN EYE to do. Continue rinsing.	Warning Warning on. e irritation. s: eat/sparks/open flames/hot surfaces} No smoking. oughly after handling. oves/protective clothing/eye protection/face protection wash with plenty of soap and water.	on}.				
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thorow P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: N P305+351+338: IF IN EY to do. Continue rinsing. P332+313: If skin irritation P337+313: If eye irritation	Warning Warning warning warning warning warning on. e irritation. s: eat/sparks/open flames/hot surfaces} No smoking. oughly after handling. oves/protective clothing/eye protection/face protection wash with plenty of soap and water. ES: Rinse cautiously with water for several minutes.	on}.				
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritatio H319: Causes serious eye GHS Precaution Phrase P210: Keep away from {h P264: Wash {hands} thoro P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: A P305+351+338: IF IN EYE to do. Continue rinsing. P332+313: If skin irritation P337+313: If eye irritation P362+364: Take off conta	warning Warning warnin	on}.				
2	Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H227: Combustible liquid. H315: Causes skin irritation H319: Causes serious eye GHS Precaution Phrases P210: Keep away from {h P264: Wash {hands} thorow P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: A P305+351+338: IF IN EYE to do. Continue rinsing. P332+313: If skin irritation P337+313: If skin irritation P362+364: Take off conta	warning Warning warnin	on}.				



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Multi-region format

2.3	Adverse Human Health	Causes skin and serious eye irritation.
	Effects and Symptoms:	DMSO has the potential to carry toxic materials or materials of unknown toxicity into the body.
		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 absorption.
		May cause respiratory system irritation.
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

# Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification	
349085-82-1 NA	GSK137647A	0.3 %	NA NA	No data available.	
67-68-5 PV6210000	Dimethyl sulfoxide, anhydrous	99.7 %	200-664-3 NA	Flam. Liq. 4: H227 Eye Damage 2A: H319 Skin Corr. 2: H315	

## 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.					
4.2	Important Symptoms and	d Exposure may cause: hematuria or shortness of breath (dyspnea).					
	Effects, Both Acute and	Exposure may cause: gastrointestinal irritation with nausea, vomiting, diarrhea, headache,					
	Delayed:	dizziness, and drowsiness.					
		Eye contact may cause blurry vision, burning sensation, redness, tearing, and vasodilation.					
		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	<b>g</b> A solid water stream may be inefficient.					
	Media:						
5.2	Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.						
	Hazards:	Container explosion may occur under fire conditions.					
		English taxis forman and the first second title and					
1		Emits toxic fumes under fire conditions.					
		Sensitive to static discharge.					
		Sensitive to static discharge.					
	Flash Pt:	Sensitive to static discharge. Vapors can travel to a source of ignition and flash back.					
	Flash Pt: Explosive Limits:	Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. No data available.					



	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.							
				s diluted in dimethyl sul	-			
			Section 6. Ac	cidental Releas	se Measures			
5.1	Protectiv	e Precautions,	Avoid breathing vap	ors and provide adequa	ate ventilation.			
	Protectiv	e Equipment an	d As conditions warran	nt, wear a NIOSH appro	oved self-contained breathing	apparatus, or respirator		
	Emergen	cy Procedures:	and appropriate pers	sonal protection (rubbe	r boots, safety goggles, and h	eavy rubber gloves).		
6.2	Environmental Take steps to avoid release into the environment, if safe to do so.							
	Precautio	Precautions:						
6.3			r Contain spill and col					
	Containm	nent and Cleani	ngTransfer to a chemic	cal waste container for o	disposal in accordance with lo	ocal regulations.		
	Up:							
			Section 7	. Handling and	Storage			
7.1	Precautio	ons To Be Taker	<ul> <li>Avoid breathing dust</li> </ul>	/fume/gas/mist/vapours	s/spray.			
	in Handli	ng:	Avoid prolonged or re					
			Keep away from sou	-				
				neasures against static	discharge.			
7.2			N Keep away from hea	-				
	in Storing	g:	Keep container tight	-	on the product incort			
				with information listed of	on the product insert.			
	Uther Pre	ecautions:	Hygroscopic.					
				ire Controls/Pe	rsonal Protection			
	Exposure	Parameters:	tion 8. Exposu		1			
CAS	Exposure # F	Parameters: Partial Chemica	tion 8. Exposu	Britain EH40	France VL	Europe		
<b>CAS</b> 3490	Exposure # F 85-82-1 (	Parameters: Partial Chemica GSK137647A	tion 8. Exposu	Britain EH40 No data.	France VL No data.	No data.		
<b>CAS</b> 3490	Exposure # F 85-82-1 (	Parameters: Partial Chemica	tion 8. Exposu	Britain EH40	France VL			
CAS 3490 67	Exposure # F 85-82-1 ( -68-5 [	Parameters: Partial Chemica GSK137647A	tion 8. Exposu Name e, anhydrous	Britain EH40 No data.	France VL No data.	No data.		
CAS 3490 67 CAS	Exposure # F 85-82-1 ( -68-5 [ # F	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid	tion 8. Exposu Name e, anhydrous	Britain EH40 No data. No data.	France VL         No data.         No data.	No data. No data.		
CAS 3490 67 CAS 3490	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 (	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica	tion 8. Exposu Name e, anhydrous Name	Britain EH40 No data. No data. OSHA TWA	France VL         No data.         No data.         ACGIH TWA	No data. No data. Other Limits		
CAS 3490 67 CAS 3490 67	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A	tion 8. Exposu Name e, anhydrous Name	Britain EH40No data.No data.OSHA TWANo data.	France VL         No data.         No data.         ACGIH TWA         No data.	No data. No data. Other Limits No data.		
CAS 3490 67 CAS 3490 67 3.2	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous	Britain EH40No data.No data.OSHA TWANo data.No data.No data.	France VL         No data.         No data.         ACGIH TWA         No data.	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu	Britain EH40No data.No data.OSHA TWANo data.No data.No data.	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         No data.         ilation, or other engineering comparison of the section of the	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2 3.2.1	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure Engineer (Ventilation Personal	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls on etc.): protection equ	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment:	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         No data.         No data.         Interpretation of the second	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         No data.         ilation, or other engineering comparison of the section of the	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2 3.2.1	Exposure # F 85-82-1 (0 -68-5 [0 # F 85-82-1 (0 -68-5 [0 Exposure Engineer (Ventilation	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls on etc.): protection equ	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         No data.         no data.         visual data.         No data.	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         No data.         ilation, or other engineering comparison of the section of the	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2 3.2.1	Exposure # B5-82-1 C-68-5 Exposure Engineer (Ventilation Personal Eye Protective	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid controls: ing Controls on etc.): protection equ ection: e Gloves:	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses Compatible chemical	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         No data.         no data.         visual data.         No data.	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         No data.         ilation, or other engineering comparison of the section of the	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2 3.2.1	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure Engineer (Ventilation Personal Eye Protective Other Protective	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls on etc.): protection equ ection: e Gloves: ptective Clothin	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses Compatible chemical	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         No data.         no data.         visual data.         No data.	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         No data.         ilation, or other engineering comparison of the section of the	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2 3.2.1	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure Engineer (Ventilation Personal Eye Protective Protective Other Pro Respirato	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid controls: ing Controls on etc.): protection equ ection: e Gloves: otective Clothin ory Equipment	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses Compatible chemical g:Lab coat	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         No data.         no data.         visual data.         No data.	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         Idation, or other engineering call	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2 3.2.1	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure Engineer (Ventilation Personal Eye Protection Other Protection Other Protection Respirato (Specify	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls on etc.): protection equ ection: e Gloves: otective Clothin ory Equipment Type):	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         In o data.         No data.         In o data.	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         Idation, or other engineering call	No data. No data. Other Limits No data. No data.		
CAS 3490 67 CAS 3490 67 3.2 3.2.1	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure Engineer (Ventilation Personal Eye Protective Other Protective Other Protective Cher Protective Other Protective Mork/Hyg	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls on etc.): protection equ ection: e Gloves: otective Clothing ory Equipment Type): gienic/Maintena	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         Ivo data.	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         ilation, or other engineering contractions         varrant.	No data.         No data.         Other Limits         No data.         No data.         ontrols to control airborn		
67 CAS 3490	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure Engineer (Ventilation Personal Eye Protection Other Protection Other Protection Respirato (Specify	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls on etc.): protection equ ection: e Gloves: otective Clothing ory Equipment Type): gienic/Maintena	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally Facilities storing or u	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         Invo data. <t< td=""><td>France VL         No data.         No data.         ACGIH TWA         No data.         No data.         Idation, or other engineering call</td><td>No data.         No data.         Other Limits         No data.         No data.         ontrols to control airborn</td></t<>	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         Idation, or other engineering call	No data.         No data.         Other Limits         No data.         No data.         ontrols to control airborn		
CAS 3490 67 CAS 3490 67 8.2 8.2.1	Exposure # F 85-82-1 ( -68-5 [ # F 85-82-1 ( -68-5 [ Exposure Engineer (Ventilation Personal Eye Protective Other Protective Other Protective Cher Protective Other Protective Mork/Hyg	Parameters: Partial Chemica GSK137647A Dimethyl sulfoxid Partial Chemica GSK137647A Dimethyl sulfoxid Controls: ing Controls on etc.): protection equ ection: e Gloves: otective Clothing ory Equipment Type): gienic/Maintena	tion 8. Exposu I Name e, anhydrous I Name e, anhydrous Use process enclosu levels below recomm ipment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally	Britain EH40         No data.         No data.         OSHA TWA         No data.         No data.         Invo data. <t< td=""><td>France VL         No data.         No data.         ACGIH TWA         No data.         No data.         ilation, or other engineering contractions         varrant.</td><td>No data.         No data.         Other Limits         No data.         No data.         ontrols to control airborn</td></t<>	France VL         No data.         No data.         ACGIH TWA         No data.         No data.         ilation, or other engineering contractions         varrant.	No data.         No data.         Other Limits         No data.         No data.         ontrols to control airborn		



Revision: 04/08/2016

	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:	Solution			
	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 o	rmm 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.			
	Autoignition Pt:	215.00 C			
9.2	Other Information				
	Percent Volatile:	No data.			
	Molecular Formula & Wei	ght: C16H19NO3S 305.4			
		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:	heat, flames and sparks			
10.5	Incompatibility - Materials				
	To Avoid:	phosphorus halides			
		strong acids			
		alkali metals			
		g oxidizing agents			
		strong reducing agents			
10.6	Hazardous	carbon monoxide			
	Decomposition or	carbon dioxide			
	Byproducts:	sulfur oxides			
1					



## SAFETY DATA SHEET FFAR4 Assay GSK137647A Positive Control

			Sectio	n 11. Toxicolog	gical Informa	ition			
11.1	1.1 Information on Toxicological Effects:		The toxicological effects of this product have not been thoroughly studied. DMSO - Toxicity Data: Oral LD50 (rat): 14,500 mg/kg; Skin LD50 (rat): 40,000 mg/kg; Oral LD50 (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);						
				ation Data: Eyes (rabbi		in (rabbit): 50	0 mg (24h) mil	d;	
	Chronic	Toxicological	DMSO - Inv	estigated as a mutager	, reproductive effec	ctor, and tume	origen.		
	Effects:		Only select	Registry of Toxic Effect	s of Chemical Subs	stances (RTE	CS) data is pre	sented here.	
			See actual entry in RTECS for complete information.						
			DMSO RTECS Number: PV6210000						
	nogenicity		NTP? No	IARC Monographs?		gulated? No			
CAS		Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
	85-82-1	GSK137647A			n.a.	n.a.	n.a.	n.a.	
67	-68-5	Dimethyl sulfoxid	e, anhydrous		n.a.	n.a.	n.a.	n.a.	
			Sect	ion 12. Ecologi	cal Informati	on			
2.1	Toxicity	:	Avoid releas	e into the environment					
			Runoff from	fire control or dilution v	vater may cause po	ollution.			
12.2	Persiste	ence and	No data ava	ilable.					
	Degrada	ability:							
2.3	Bioaccu Potentia	mulative II:	No data ava	ilable.					
2.4	Mobility	in Soil:	No data ava	ilable.					
2.5	Results	of PBT and vPvB	No data ava	ilable.					
	assessn	nent:							
12.6	Other ac	dverse effects:	No data ava	ilable.					
			Sectio	on 13. Disposal	Considerati	ons			
3.1	Waste D	isposal Method:	Dispose in a	accordance with local, s	state, and federal re	gulations.			
			Sec	tion 14. Transp	ort Informati	on			
14.1	LAND T	RANSPORT (US I	DOT):						
	OT Prope OT Hazar	r Shipping Name: d Class:	Combus	stible liquid, n.o.s. (Dim	ethyl sulfoxide)				
U	N/NA Nur	nber:	NA1993	3	Packing Grou	p:	III		
14.1	LAND T	RANSPORT (Euro	opean ADR/F	RID):					
Α		hipping Name:	-	stible liquid, n.o.s. (Dim	ethyl sulfoxide)				
U	N Numbe	r:	1993		Packing Grou	p:	Ш		
н	azard Cla	SS:							
14.3		ANSPORT (ICAO/I	ATA):						
IC	CAO/IATA Shipping Name:		Environ	mentally hazardous su	bstances, solid, n.o	.s. (Dimethyl	sulfoxide)		
U	N Numbe	r:	3077		Packing Grou	p:	III		
Н	azard Cla	SS:	9 - CLA	SS 9					
Addit	ional Tra	nsport	-	accordance with local		-			
Inforr	mation:			n quantities of less tha	-	-	-	-	
				or E5, this item meets		-	-		
			i neretore p	ackaging does not hav	e to de ladeled as l	Jangerous Go	-	-	
							N	Iulti-region form	



		Section 15. Regu		allUII		
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists						
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
349085-82-1	GSK137647A		No	No	No	
67-68-5	Dimethyl sulfoxid	le, anhydrous	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists		
349085-82-1	GSK137647A		CAA HAP,ODC: PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA	
67-68-5	Dimethyl sulfoxid	le, anhydrous	CAA HAP,ODC: Inventory; CA P	No; CWA NPDES ROP.65: No	: No; TSCA: Yes -	
Regulatory Inf	ormation	This SDS was prepared in acco No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Information	on		
Revision Date:		04/08/2016				
Additional Info	rmation About	No data available.				
his Product:						