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	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008									
		Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking				
1.1	Product Product Synony	t Name:	10601 GluR1 (Phospho-Ser845 Glutamate Receptor Sub		ły					
1.2			of the substance or mixture a		-					
	Releva	Relevant identified uses: For research use only, not for human or veterinary use.								
1.3	Details	Details of the Supplier of the Safety Data Sheet:								
	-	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany						
		ite address:	www.caymanchem.com							
		nation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335				
1.4	Emergency telephone numb Emergency Contact:		CHEMTREC Within USA			300)424-9300 703)527-3887				
			Section 2. Ha	zards Identifi	cation					
2.1	Classifi	cation of the Subs	tance or Mixture:							
2.1.1	Classif	ication according	to Regulation (EC) No 1272/2	2008 [CLP]:						
2.2	Label E	lements:								
2.2.1	Labelir	ng according to Re	gulation (EC) No 1272/2008	[CLP]:						
	GHS Based GHS B No ph GHS B	Signal Word: None Hazard Phrases: If an evaluation of currently available data this substance or mixture is not classifiable according to GHS. Precaution Phrases: If an evaluation of currently available data this substance or mixture is not classifiable according to GHS. Response Phrases: If an evaluation of currently available data this substance or mixture is not classifiable according to GHS.								
	No phrases apply. GHS Storage and Disposal Phrases:									
	Please refer to Section 7 for Storage and Section 13 for Disposal information.									
2.3	Advers	Human Health Material may be irritating to the mucous membranes and upper respiratory tract.								
			halation, ingestion, or skin absorption. , or respiratory system irritation.							
						been thoroughly investigated.				
		Sect	ion 3. Composition	/Information	on Ingredie	nts				
CAS	#/	1	•	Concentration	EC No./	GHS Classification				
RTEC		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC Index No.	GIG Classification				
NA NA		GluR1 (Phospho-Se	r845) Polyclonal Antibody	0.0 -0.1 %	NA NA	No data available.				
	-81-5	Glycerol		0.0 -50.0 %	200-289-5 NA	No data available.				
	8-46-8 46000	Bovine Serum Albun	nin (BSA)	0.01 %	232-936-2 NA	Acute Tox.(O) 4: H302				
764	7-14-5			0.877 %	231-598-3	No data available.				



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		1		1	1	1			
VZ472	25000				NA				
7365 TL680	5-45-9)9000	HEPES, free acid		0.238 %	230-907-9 NA	No data available.			
7732 ZC011	2-18-5 10000	Water		48.775 -98.875 %	231-791-2 NA	No data available.			
		+		+	•	+			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Descrip	ption of First Aid	No data available.						
	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 Mea	asures				
5.1 Suitable Extinguishing Media:			Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.						
	Media:	Unsuitable Extinguishing A solid water stream may be inefficient.							
5.2	Flammable Properties and Emits toxic fumes under fire conditions.								
	Hazard								
	Flash F		No data.						
	-	ive Limits:	LEL: No data.	UEL: No da	ta.				
	Autoignition Pt:		No data.						
5.3	Fire Fiç	ghting 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. Accider	ntal Release N	leasures				
6.1	Protective Precautions,Avoid breathing vapors and provide adequate ventilation.Protective Equipment andAs 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	Enviro Precau	nmental tions:	Take steps to avoid release	into the environment	, if safe to do so.				
6.3			r Contain spill and collect, as ngTransfer to a chemical wast		sal in accordance	with local regulations.			
			Section 7. Har	ndling and Sto	orage				
7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/g	as/mist/vapours/spra	у.				
	in Hand	dling:	Avoid prolonged or repeated	exposure.					
7.2			Keep container tightly closed						
	in Stori	ing:	Store in accordance with info	ormation listed on the	product insert.				



3.1 Expo	sure Parameters:				
CAS #	Partial Chemica	l Name	Britain EH40	France VL	Europe
NA	GluR1 (Phospho- Antibody	Ser845) Polyclonal	No data.	No data.	No data.
56-81-5	Glycerol		TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.
9048-46-8	Bovine Serum All	oumin (BSA)	No data.	No data.	No data.
7647-14-5	Sodium chloride		No data.	No data.	No data.
7365-45-9	HEPES, free acid	l	No data.	No data.	No data.
7732-18-5	Water		No data.	No data.	No data.
CAS #	Partial Chemica	l Name	OSHA TWA	ACGIH TWA	Other Limits
NA	GluR1 (Phospho- Antibody	Ser845) Polyclonal	No data.	No data.	No data.
56-81-5	Glycerol		PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.
9048-46-8	Bovine Serum All	oumin (BSA)	No data.	No data.	No data.
7647-14-5	Sodium chloride		No data.	No data.	No data.
7365-45-9	HEPES, free acid	l	No data.	No data.	No data.
7732-18-5	Water		No data.	No data.	No data.
Eye Prote Othe Resp (Spe Worl	onal protection equi Protection: ective Gloves: or Protective Clothing biratory Equipment cify Type): ractices:	Safety glasses Compatible chemica g:Lab coat NIOSH approved rea n Do not take internall	spirator, as conditions warrar y. utilizing this material should b		ash and a safety show



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.1	Informatio		ction 9. Physical		•				
	Information on Basic Physical and Chemical Properties Physical States: []Gas [X]Liquid []Solid								
	•	ce and Odor:	Solution						
	pH:								
	Melting Po	pint:	7.5 No data.						
	Boiling Po		No data.						
	Flash Pt:		No data.						
	Evaporatio	on Rate:	No data.						
	Explosive	Limits:	LEL: No data.	UEL: No	o data.				
	Vapor Pre	ssure (vs. Air or	mm No data.						
	Hg):								
	Vapor Density (vs. Air = 1):		No data.						
	Specific G	ravity (Water = 1): No data.						
	Solubility	in Water:	No data.						
	Autoigniti	on Pt:	No data.						
9.2	Other Infor	mation							
	Percent Ve	olatile:	No data.						
			Section 10. Sta	bility and Reacti	vity				
10.1	Reactivity		No data available.						
10.2	Stability:	I	Unstable [] Stable [X]					
10.3	Stability N	ote(s):	Stable if stored in accordance	e with information listed	on the product	insert.			
	Polymeriz								
10.4	Condition	s To Avoid:	No data available.						
10.5	Incompati	bility - Materials	strong bases						
	To Avoid:	:	strong oxidizing agents						
10.6	Hazardous	6	carbon dioxide						
	Decompos	sition Or	carbon monoxide						
	Byproduc	ts:							
			Section 11. Toxic	cological Informa	ation				
1.1	Informatio		The toxicological effects of this product have not been thoroughly studied.						
	Toxicolog	ical Effects:	Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild;						
	•		Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen.						
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete information.						
•·	•		Glycerol RTECS Number: MA8050000 NTP? No IARC Monographs? No OSHA Regulated? No						
Carcinogenicity:			-	-	egulated? No				
CAS #		Hazardous Components (Chemical Name)		NTP	IARC	ACGIH	OSHA		
NA		GluR1 (Phospho-Ser845) Polyclonal Antibody		n.a.	n.a.	n.a.	n.a.		
		Glycerol		n.a.	n.a.	n.a.	n.a.		
9048-46-8 E		Bovine Serum Albumin (BSA)		n.a.	n.a.	n.a.	n.a.		
7647-14-5		Sodium chloride		n.a.	n.a.	n.a.	n.a.		
7365-45-9 HEPES, free ac		IEPES, free acid		n.a.	n.a.	n.a.	n.a.		
	2-18-5 V	8-5 Water		n.a.	n.a.	n.a.	n.a.		



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		Section 12. Ecolo	ogical Informa	tion			
12.1	Toxicity:	Avoid release into the environn	0				
	· · · · · · · · · · · · · · · · · · ·	Runoff from fire control or diluti		pollution.			
12.2 I	Persistence and	No data available.					
1	Degradability:						
12.3 I	Bioaccumulative	No data available.					
1	Potential:						
12.4 I	Mobility in Soil:	ty in Soil: No data available.					
12.5 I	Results of PBT and vPvB	s of PBT and vPvB No data available.					
6	assessment:						
12.6 (Other adverse effects:	No data available.					
		Section 13. Dispo	sal Considera	tions			
13.1 \	Waste Disposal Method:	Dispose in accordance with loc	al, state, and federal	regulations.			
		Section 14. Trar	sport Informa	ition			
14.1	LAND TRANSPORT (US	DOT):					
DO	T Proper Shipping Name	Not dangerous goods.					
DO	T Hazard Class:						
	/NA Number:						
	LAND TRANSPORT (Eur						
	R/RID Shipping Name:	Not dangerous goods.					
_	Number:						
	zard Class:	7.4 7 4 \-					
	AIR TRANSPORT (ICAO/ O/IATA Shipping Name:	-					
	onal Transport	Not dangerous goods. Transport in accordance with le	acal state and foder	al regulations			
Informa	-	Transport in accordance with	Jeal, State, and level	ai regulations.			
		Section 15. Regu	latory Informa	ation			
EPA SA	ARA (Superfund Amendr	nents and Reauthorization Act	•				
CAS #	· · ·	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
Ν	IA GluR1 (Phospho	-Ser845) Polyclonal Antibody	No	No	No		
56-8	31-5 Glycerol		No	No	No		
9048-	-46-8 Bovine Serum Al	lbumin (BSA)	No	No	No		
7647-	-14-5 Sodium chloride		No	No	No		
7365-	-45-9 HEPES, free aci	d	No	No	No		
7732-	-18-5 Water		No	No	No		
CAS #	AS # Hazardous Components (Chemical Name) Other US EPA or State Lists						
N	IA GluR1 (Phospho	GluR1 (Phospho-Ser845) Polyclonal Antibody CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
56-8	31-5 Glycerol	Glycerol CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
9048-	-46-8 Bovine Serum Al	Bovine Serum Albumin (BSA) CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
7647-	-14-5 Sodium chloride	Sodium chloride CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -					
					Multi-region format		



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1	1					
		Inventory; CA PROP.65: No				
7365-45-9	HEPES, free aci	d CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
		Inventory; CA PROP.65: No				
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
		Inventory; CA PROP.65: No				
Regulatory In	formation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.				
		Section 16. Other Information				
Revision Date:		03/31/2015				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information				
		currently available to us. However, we make no warranty of merchantability or any other warranty,				
		express or implied, with respect to such information, and we assume no liability resulting from its				
		use. Users should make their own investigations to determine the suitability of the information for				
		their particular purposes.				
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