

Revision: 10/16/2019 Supersedes Revision: 05/30/2013

						20015				
			o Regulation (EC) No. 1907/2006 as a							
		Section 1. Ide	entification of the Substar	nce/Mixture and of	t the Company/L	Indertaking				
1.1	Produc		10011084							
	Produc	t Name:	SIRT1 FRET Stop Soluti	ion						
1.2	Relevar	Relevant identified uses of the substance or mixture and uses advised against:								
	Relevant identified uses: For research use only, not for human or veterinary use.									
1.3		of the Supplier of the	-							
	Comp	any Name:	Cayman Chemical Company 1180 E. Ellsworth Rd.							
			Ann Arbor, MI 48108							
	Web s	site address:	www.caymanchem.com							
	Inforn	nation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335				
1.4	Emerge	ency telephone numb	per:							
	Emer	gency Contact:	CHEMTREC Within USA			00)424-9300				
			CHEMTREC Outside US			03)527-3887				
			Section 2. Ha	zards Identif	ication					
2.1	Classifi	cation of the Substar	nce or Mixture:							
2.2	Label E	lements:								
	GHS S	Signal Word:	None							
		Hazard Phrases:								
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.									
		Precautionary Phrase	es:							
	-	bhrases apply.								
GHS Response Phrases: No phrases apply. GHS Storage and Disposal Phrases:										
			Storage and Section 13 for	r Disposal informatio	on.					
2.3	Advers	e Human Health	Naterial may be irritating to t	the mucous membra	anes and upper re	spiratory tract.				
	Effects		lay be harmful by inhalatior	-	-					
			lay cause eye, skin, or resp							
			-			t been thoroughly investigated.				
		Sectio	on 3. Composition	n/Information	on Ingredie	nts				
CAS RTEC		Hazardous Compor REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification				
	-92-0 75000	Nicotinamide 01-2119968268-22		1.22 %	202-713-4 NA	Eye Damage 2: H319				
77- TY290	-86-1 00000	Trizma base 01-2119957659-16		0.6 %	201-064-4 NA					
	3-12-3 10000	DL-Dithiothreitol		0.007 %	222-468-7 NA	Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336				
	1-18-6 975000	Magnesium chloride, hexahydrate		0.08 %	NA NA	No GHS classifications apply.				
	2-18-5 10000	Water na		98.093 %	231-791-2 NA	No GHS classifications apply.				
						· Multi-region forma				



		Section 4. Fire	st Aid Measures					
4.1	Description of First Aid							
	Measures:							
	In Case of Inhalation:	Remove to fresh air. If not brea Get immediate medical attentio	thing, give artificial respiration or give oxygen by n.	trained personnel.				
	In Case of Skin Contact:	-	ap and plenty of water for at least 20 minutes. Re if symptoms occur. Wash clothing before reuse.	emove contaminated				
	In Case of Eye Contact:	-	es with plenty of water for at least 20 minutes. He	ave eyes examined				
	In Case of Ingestion:							
		-	Fighting Measures					
5.1	Suitable Extinguishing		rbon dioxide, water, or dry chemical spray.					
5.1	Media:	Use water spray to cool fire-ex						
		A solid water stream may be in	•					
	Media:	Toolid water stream may be in						
5.2	Flammable Properties and	d No data available.						
	Hazards:							
		No data available.						
	Flash Pt:	No data.						
	Explosive Limits:	LEL: No data.	UEL: No data.					
	Autoignition Pt:	No data.						
5.3	-	: As in any fire, wear self-contain	ned breathing apparatus pressure-demand (NIO	SH approved or				
	0 0	-	gear to prevent contact with skin and eyes.					
		Section 6. Accident	al Release Measures					
6.1	Protective Precautions,	Avoid breathing vapors and pr	ovide adequate ventilation.					
	Protective Equipment and	nd As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,						
	Emergency Procedures:	and appropriate personal prote	ection (rubber boots, safety goggles, and heavy i	rubber gloves).				
6.2	Environmental	Take steps to avoid release in	to the environment, if safe to do so.					
	Precautions:							
6.3	Methods and Material For	Contain spill and collect, as ap	opropriate.					
	Containment and Cleanin	gTransfer to a chemical waste	container for disposal in accordance with local re	gulations.				
	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 e	xposure.					
7.2	Precautions To Be Taken	Keep container tightly closed.						
	in Storing:	Store in accordance with inform	nation listed on the product insert.					
	Sect	tion 8. Exposure Co	ntrols/Personal Protection					
	Exposure Parameters:							
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
77-86-	1 Trizma base	ACGIH TLV	CEIL: 5 mg/m3 (salts)					
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77-86	<u>MSU</u>		Su	persedes Revision: 05/30/2013				
		France VL	TWA: 5 mg/m3					
(conti	nued)							
		OSHA PELs	TWA: 5 mg/m3					
3.2	Exposure Controls:	Britain EH40	TWA: 5.0 mg/m3	Skin Absorptio				
	-		local exhaust ventilation, or other engineer	ing controls to control cirborr				
8.2.1	Engineering Controls	levels below recommende	local exhaust ventilation, or other engineeri					
	(Ventilation etc.):							
8.2.2								
	Eye Protection:	-						
	Protective Gloves: Compatible chemical-resistant gloves							
	Other Protective Clothing:Lab coat							
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.							
	(Specify Type):							
	Work/Hygienic/Maintena							
	ce Practices:	•	ng this material should be equipped with an	eyewash and a safety showe				
		Wash thoroughly after ha	ndling.					
		No data available.						
	S	ection 9. Physica	al and Chemical Properties					
9.1	Information on Basic Phy	sical and Chemical Prope	erties					
	Physical States:	[]Gas [X]L	iquid [] Solid					
	Appearance and Odor:	Solution						
	pH:	8.8						
	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	or mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1	1): No data.						
	Vapor Density (vs. Air = 1 Specific Gravity (Water =							
	Specific Gravity (Water =	• 1): No data.						
	Specific Gravity (Water = Solubility in Water:	1): No data. No data.						
	Specific Gravity (Water = Solubility in Water: Octanol/Water Partition	1): No data. No data.						
	Specific Gravity (Water = Solubility in Water: Octanol/Water Partition Coefficient:	a 1): No data. No data. No data. No data.						
	Specific Gravity (Water = Solubility in Water: Octanol/Water Partition Coefficient: Autoignition Pt:	a 1): No data. No data. No data. No data.						
9.2	Specific Gravity (Water = Solubility in Water: Octanol/Water Partition Coefficient: Autoignition Pt: Decomposition Temperat	And the second s						



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						5	uperseues Revis	ion: 05/30/2
			Secti	on 10. Stability and	d Reacti	vity		
10.1	Reactivity: No data available.			ilable.				
10.2	Stability	:	Unstable [] Stable [X]				
10.3	0.3 Stability Note(s):		Stable if stored in accordance with information listed on the product insert.					
Polymerizatior		ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ons To Avoid:	No data ava	ilable.				
10.5	Incompa To Avoid	-	strong oxidizing agents					
10.6	Hazardo		carbon dioxi	de				
10.0		osition or	carbon mone					
	Byprodu		nitrogen oxides					
			Sectio	n 11. Toxicological	I Informa	ation		
11.1	Informat		The toxicolo	gical effects of this product h	ave not beer	n thoroughly st	udied.	
		ogical Effects:						
	nogenicity	i	NTP? No	IARC Monographs? No		egulated? No		
CAS #		Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA
98-	-92-0	Nicotinamide			n.a.	n.a.	n.a.	n.a.
77-	-86-1	Trizma base			n.a.	n.a.	n.a.	n.a.
348	3-12-3	DL-Dithiothreitol			n.a.	n.a.	n.a.	n.a.
779	1-18-6	Magnesium chlori	ide, hexahydr	ate	n.a.	n.a.	n.a.	n.a.
773	2-18-5	Water			n.a.	n.a.	n.a.	n.a.
			Secti	on 12. Ecological I	nformat	ion		
	12.1 Toxicity:							
12.1	Toxicity	:		e into the environment.				
12.1	Toxicity	:	Avoid releas	e into the environment. fire control or dilution water r				
12.1 12.2	Toxicity Persiste		Avoid releas	fire control or dilution water r				
	-	nce and	Avoid releas Runoff from	fire control or dilution water r				
	Persiste Degrada	nce and	Avoid releas Runoff from	fire control or dilution water r ilable.				
12.2	Persiste Degrada	nce and bility: mulative	Avoid releas Runoff from No data ava	fire control or dilution water r ilable.				
12.2	Persiste Degrada Bioaccu	nce and bility: mulative I:	Avoid releas Runoff from No data ava	fire control or dilution water r ilable. ilable.				
12.2 12.3	Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I:	Avoid releas Runoff from No data ava No data ava	fire control or dilution water r ilable. ilable. ilable.				
12.2 12.3 12.4	Persiste Degrada Bioaccu Potentia Mobility	nce and ibility: mulative I: in Soil: of PBT and vPvB	Avoid releas Runoff from No data ava No data ava	fire control or dilution water r ilable. ilable. ilable.				
12.2 12.3 12.4	Persiste Degrada Bioaccu Potentia Mobility Results assessn	nce and ibility: mulative I: in Soil: of PBT and vPvB	Avoid releas Runoff from No data ava No data ava	fire control or dilution water r ilable. ilable. ilable. ilable.				
12.2 12.3 12.4 12.5	Persiste Degrada Bioaccu Potentia Mobility Results assessn	nce and ibility: mulative I: in Soil: of PBT and vPvB nent:	Avoid releas Runoff from No data ava No data ava No data ava No data ava	fire control or dilution water r ilable. ilable. ilable. ilable.	nay cause p	ollution.		



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		Section 14. Trar	nsport Informa	ation			
14.1 LAND	TRANSPORT (US DC	יד):					
DOT Prop	er Shipping Name:	Not dangerous goods.					
DOT Haza	ard Class:						
UN/NA Nu	ımber:						
14.1 LAND	TRANSPORT (Europ	ean ADR/RID):					
ADR/RID Shipping Name: Not dangerous good							
UN Numb	er:						
Hazard CI	ass:						
14.3 AIR TF	RANSPORT (ICAO/IAT	ГА):					
	A Shipping Name:	Not dangerous goods.					
UN Numb			Packing Gro	oup:			
Hazard Cl							
Additional Tr	ansport	Fransport in accordance with I	ocal, state, and feder	al regulations.			
Information:							
		Section 15. Regu	latory Informa	ation			
EPA SARA (S	Superfund Amendme	nts and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Compo	onents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
98-92-0	Nicotinamide		No	No	Yes-Cat. N503		
77-86-1	Trizma base		No	No	Yes-Cat. N106		
3483-12-3	DL-Dithiothreitol		No	No	No		
7791-18-6	Magnesium chloride	e, hexahydrate	No	No	No		
7732-18-5	Water		No	No	No		
CAS #	Hazardous Compo	onents (Chemical Name)	Other US EPA or	State Lists	+		
98-92-0	Nicotinamide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
			Inventory; CA PF	ROP.65: No			
77-86-1	Trizma base				NPDES: No; TSCA: Yes -		
			Inventory; CA PF				
3483-12-3	DL-Dithiothreitol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
			Inventory; CA PF		N 7004 N 04		
7791-18-6	Magnesium chloride	e, hexahydrate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
7732-18-5	Water				: No; TSCA: Yes -		
			Inventory; CA PF	ROP.65: No			
Regulatory In	formation 7	his SDS was prepared in acc	ordance with 29 CFR	1910.1200 and R	egulation (EC)		
Statement:	١	lo.1272/2008.					

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Section 16. Other Information				
Revision Date:	10/16/2019			
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.			