

Revision: 02/25/2018

		acco	rding to Regulation (EC) No. 190	7/2006 as amended by	/ (EC) No. 1272/200	8
		Section 1. Ic	dentification of the Substar	nce/Mixture and of	the Company/U	ndertaking
1.1	Product Product Synony	Name:	23589 DJ-1/PARK7 (human rec DJ-1; EC3.1.2-; EC 3.5.1 HEL-S-67p; Oncogene D Parkinson Disease (auto Parkinsonism-Associated	.124; Epididymis Se JJ1; Parkinson Degly somal recessive, ear	vcase DJ-1; rly onset) 7; Parki	
1.2	Relevar	nt identified uses of	the substance or mixture a	Ind uses advised a	gainst:	
	Releva	ant identified uses:	For research use only, no	ot for human or veter	rinary use.	
1.3		of the Supplier of th any Name:	ne Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
		ite address:	www.caymanchem.com			
		nation:	Cayman Chemical Comp	bany	+1 (73-	4)971-3335
1.4	-	ncy telephone num gency Contact:	ber: CHEMTREC Within USA CHEMTREC Outside US		•	0)424-9300 3)527-3887
			Section 2. Ha	zards Identific	cation	
2.2	GHS S GHS I Based GHS I No ph GHS S Please Advers	Precaution Phrases rases apply. Response Phrases: rases apply. Storage and Dispos e refer to Section 7 fo e Human Health	al Phrases: or Storage and Section 13 for Material may be irritating to t	Disposal information	n. nes and upper res	-
	Effects		May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge	iratory system irritati	on.	been thoroughly investigated.
		Secti	on 3. Composition	/Information of	on Ingredie	nts
CAS RTE		Hazardous Compo REACH Registration	onents (Chemical Name)/ on No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		DJ-1/PARK7 (human	recombinant)	< 0.1 %	NA NA	No data available.
	5-45-9 09000	HEPES, free acid		22.475 %	230-907-9 NA	No data available.
	7-14-5 25000	Sodium chloride		67.425 %	231-598-3 NA	No data available.
	-81-5)50000	Glycerol		10.0 %	200-289-5 NA	No data available.

Multi-region format



Revision: 02/25/2018

		Section 4. First	Aid Measures				
4.1	Description of First Aid						
	Measures:						
	In Case of Inhalation:	Remove to fresh air. If not breath Get immediate medical attention.	ning, give artificial respiration or give oxygen by t	rained personnel.			
	In Case of Skin Contact:		and plenty of water for at least 15 minutes. Rer symptoms occur. Wash clothing before reuse.	nove contaminated			
	In Case of Eye Contact:	0	s with plenty of water for at least 15 minutes. Ha	ve eyes examined			
	In Case of Ingestion:	Wash out mouth with water provi	ded person is conscious. Never give anything by I attention. Do NOT induce vomiting unless dire	-			
		Section 5. Fire Fi	ighting Measures				
5.1	Suitable Extinguishing Media:	Use alcohol-resistant foam, carb Use water spray to cool fire-expo	on dioxide, water, or dry chemical spray. osed containers.				
	Unsuitable Extinguishing Media:	A solid water stream may be ine	fficient.				
5.2	Flammable Properties an Hazards:	dNo data available.					
	nuzurus.	No data available.					
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data.	UEL: No data.				
	Autoignition Pt:	No data.					
5.3	-						
		Section 6. Accidenta	I Release Measures				
6.1	Protective Precautions, Protective Equipment and Emergency Procedures:	d As conditions warrant, wear a N	t, and provide adequate ventilation. IOSH approved self-contained breathing appara tion (rubber boots, safety goggles, and heavy ru				
6.2	Environmental Precautions:	Take steps to avoid release into	the environment, if safe to do so.				
6.3	Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up:						
		Section 7. Handl	ing and Storage				
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.						
 7.2 Precautions To Be Taken Keep container tightly closed. in Storing: Store in accordance with information listed on the product insert. 							
	Sec	tion 8. Exposure Con	trols/Personal Protection				
8.1	Exposure Parameters:						
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations			
56-81-	5 Glycerol	ACGIH TLV	TLV: 10 mg/m3				
				Multi-region format			



Revision: 02/25/2018

56 81 5 Chicorol				+					
56-81-5 Glycerol (continued)			France VL	TWA: 10 mg/m3					
		OSHA PELs	PEL: 15 (dust); 5 (resp.) mg/m3						
			Britain EH40	TWA: 10 mg/m3 ()					
				STEL: ()					
8.2	Exposure Controls:				•				
8.2.1	Engineering Controls	Use p	rocess enclosures, local e	xhaust ventilation, or other engineering controls to	control airborne				
	(Ventilation etc.):	levels	below recommended exp	osure limits.					
8.2.2	Personal protection equi	pment:							
	Eye Protection:	Safety	/ glasses						
	Protective Gloves:	Comp	atible chemical-resistant g	loves					
	Other Protective Clothing	g:Lab c	-						
	Respiratory Equipment		H approved respirator, as conditions warrant.						
	(Specify Type):								
		Work/Hygienic/Maintenan Do not take internally.							
	ce Practices:			material should be equipped with an eyewash and	a safety shower.				
		Wash	thoroughly after handling.		-				
	No data available.								
	S								
	Section 9. Physical and Chemical Properties								
9.1	Information on Basic Phy	sical ai	-						
	Physical States:		[]Gas [X]Liquid	[] Solid					
	Appearance and Odor:		50 mM HEPES, pH 8.0, 150 mM sodium chloride, and 10% glycerol						
	pH: Molting Deinti		8.0						
	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):	N.	No data.						
	Vapor Density (vs. Air = 1):								
	Specific Gravity (Water =	1):	No data.						
	Solubility in Water: Octanol/Water Partition		No data.						
	Coefficient:		No data.						
			No doto						
	Autoignition Pt:		No data. No data.						
	Decomposition Temperature: Viscosity:		No data.						
9.2	Other Information		No data.						
9.2			No doto						
	Percent Volatile:		No data.						



Revision: 02/25/2018

		Section 10. Stability	and Reacti	vity			
10.1 Reac	ivity:	No data available.					
10.2 Stabi	lity:	Unstable [] Stable [X]					
10.3 Stability Note(s):		Stable if stored in accordance with in	nformation listed	on the product	insert.		
Polyn	nerization:	Will occur [] Will not occur [X]				
10.4 Cond	itions To Avoid:	No data available.					
10.5 Incon	npatibility - Material	s No data available.					
Το Αν	void:						
10.6 Hazaı		No data available.					
	mposition or						
Вурго	oducts:						
		Section 11. Toxicolog					
	nation on	The toxicological effects of this prod	uct have not beer	n thoroughly st	udied.		
Toxic	ological Effects:						
CAS #	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
NA	DJ-1/PARK7 (hu	man recombinant)	n.a.	n.a.	n.a.	n.a.	
7365-45-9	HEPES, free acid	ł	n.a.	n.a.	n.a.	n.a.	
7647-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.	
56-81-5	Glycerol		n.a.	n.a.	n.a.	n.a.	
		Section 12. Ecologic	al Informat	ion			
12.1 Toxic							
		Runoff from fire control or dilution water may cause pollution.					
12.2 Persi	stence and	No data available.					
Degra	adability:						
_	cumulative	No data available.					
Poter 12.4 Mobil	ity in Soil:	No data available.					
	ity in Son. Its of PBT and vPvB						
	sment:	No dala avaliable.					
	adverse effects:	No data available.					
			Considerat	ione			
13.1 Wast	Disposal Mathada	Section 13. Disposal Dispose in accordance with local, str					
	- Disposal internou:			-			
		Section 14. Transpo	n mormat	.1011			
	D TRANSPORT (US	-					
	per Shipping Name	Not dangerous goods.					
DOT Haz UN/NA N	ard Class:						
	D TRANSPORT (Eur D Shipping Name:	Not dangerous goods.					
UN Num		Not dangerous yoods.					
Hazard (
. ideaid							
					Ν	Iulti-region f	



Revision: 02/25/2018

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

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

CAS # Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	DJ-1/PARK7 (human recombinant)	No	No	No	
7365-45-9	HEPES, free acid	No	No	No	
7647-14-5	Sodium chloride	No	No	No	
56-81-5	Glycerol	No	No	No	
CAS #	Hazardous Components (Chemical Name)	Other US EPA o	r State Lists	·	
NA	DJ-1/PARK7 (human recombinant)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
7365-45-9 HEPES, free acid		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
56-81-5	Glycerol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			

This Product:

Section 16. Other Information

Revision Date: 02/25/2018 Additional Information About

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.