

Revision: 08/07/2019 upersedes Revision: 04/07/2014

Pro Pro .2 Rel .3 Det .3 Det .4 Em .4 Em .1 Cla .2 Lab 2.1 Cla .2 Lab .1 Cla .2 Cla .1 Cla .2 Cla .1 Cla .2 Cla .3 G .3 Ad	Section 1. oduct Code: oduct Name: levant identified uses tails of the Supplier of company Name: /eb site address: formation: rergency telephone nu mergency Contact: ssification of the Sub- clammable Liquids, Ca bel Elements: HS Signal Word: GHS Hazard Phrases: 1227: Combustible liquid GHS Precaution Phrase 2210: Keep away from { 2280: Wear {protective of GHS Response Phrase lo phrases apply.	CHEMTREC Within USA CHEMTREC Outside US Section 2. Haz stance or Mixture: tegory 4 Warning d. es: heat/sparks/open flames/hot su	nce/Mixture and o and uses advised pany any and Canada: A and Canada: Zards Identif	ing.		
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G P 2.3 Ad						
P 2.3 Ad	GHS Storage and Dispe	osal Phrases:				
		for Storage and Section 13 for	Disposal informati	ion.		
	Sec	tion 3. Composition	/Information	on Ingredie	ents	
CAS # / RTECS #		ponents (Chemical Name)/ ation No.	Concentration	EC No./ EC Index No.	GHS Classification	
NA NA	HDAC Substrate		0.2 %	NA NA	No data available.	
67-68-5 PV6210000			99.8 %	200-664-3 NA	Flam. Liq. 4: H227	



Revision: 08/07/2019 Supersedes Revision: 04/07/2014

		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	g 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.						
		Emits toxic fumes under fire conditions.						
		Sensitive to static discharge.						
		Vapors can travel to a source of ignition and flash back.						
		No data available.						
	Flash Pt:	89.00 C Method Used: Closed Cup						
	Explosive Limits:	LEL: 3.5% at 25.0 C UEL: 42.0% at 25.0 C						
	Autoignition Pt:	215.00 C						
5.3	-	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. Note: Combustible as diluted in dimethyl sulfoxide						
		Section 6. Accidental Release Measures						
6.1	Protective Precautions, Protective Equipment an Emergency Procedures:							
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.						
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.						
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.							
	Up:							



Revision: 08/07/2019 Supersedes Revision: 04/07/2014

		Section 7. Handling and Storage					
7.1	Precautions To Be Taken A	void breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	void prolonged or repeated exposure.					
	ĸ	Zeep away from sources of ignition.					
	Т	ake precautionary measures against static discharge.					
. 2	Precautions To Be Taken K	Leep away from heat, sparks, and flame.					
	in Storing: K	ceep container tightly closed.					
	S	tore in accordance with information listed on the product insert.					
	Other Precautions:	lygroscopic					
	Sectio	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
3.2	Exposure Controls:						
8.2.1	• •	lse process enclosures, local exhaust ventilation, or other engineering controls to control airborn					
	(Ventilation etc.):	evels below recommended exposure limits.					
3.2.2	Personal protection equipm	nent:					
	Eye Protection:	y glasses					
	Protective Gloves: C	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	IIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash facility and a safety					
	S	hower.					
	V	Vash thoroughly after handling.					
	Ν						
	•	lo data available.					
		lo data available. ction 9. Physical and Chemical Properties					
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9.1	Sec Information on Basic Physic	ction 9. Physical and Chemical Properties					
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.1	Sec Information on Basic Physic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	Ction 9. Physical and Chemical Properties Fal and Chemical Properties []Gas [X] Liquid []Solid A solution in DMSO No data. No data. No data. 89.00 C Method Used: Closed Cup No data. No data.					
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.1	Sec Information on Basic Physic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	Ction 9. Physical and Chemical Properties Fal and Chemical Properties []Gas [X] Liquid [] Solid A solution in DMSO No data. No data. No data. 89.00 C Method Used: Closed Cup No data. No data. No data. LEL: 3.5% at 25.0 C					
0.1	Sec Information on Basic Physic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r	Ction 9. Physical and Chemical Properties Fal and Chemical Properties []Gas [X] Liquid []Solid A solution in DMSO No data. No data. No data. 89.00 C Method Used: Closed Cup No data. No data. No data. LEL: 3.5% at 25.0 C UEL: 42.0% at 25.0 C					
).1	Sec Information on Basic Physic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg):	ction 9. Physical and Chemical Properties sal and Chemical Properties []Gas [X]Liquid []Solid A solution in DMSO No data. No data. 89.00 C Method Used: Closed Cup No data. No data. No data. No data. 0.37 MM_HG at 20.0 C No data.					
9.1	Sec Information on Basic Physic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1):	ction 9. Physical and Chemical Properties sal and Chemical Properties []Gas [X]Liquid []Solid A solution in DMSO No data. No data. 89.00 C Method Used: Closed Cup No data. No data. No data. No data. 0.37 MM_HG at 20.0 C No data.					
9.1	Sec Information on Basic Physical Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1)	ction 9. Physical and Chemical Properties cal and Chemical Properties []Gas [X]Liquid []Solid A solution in DMSO No data. No data available. LEL: 3.5% at 25.0 C UEL: 42.0% No data. No data. No data available. LEL: 3.5% At 20.0 C No data. No data.					

Cay	man		S	AFETY DATA HDAC Subst			Revisio persedes Revisio	Page: 4 of n: 08/07/2019 n: 04/07/2014	
	Autoignition	Pt:	215.00 C				perseues Revisio	1. 04/07/2014	
	-	ion Temperat							
	Viscosity:		No data.						
9.2	Other Inform	ation							
	Percent Vola		No data.						
		ormula & Wei		7 600.7					
			-	. Stability and	Reactiv	ity			
10.1	Reactivity:		No data available.			<u>,</u>			
10.2	Stability:		Unstable [] Sta	ble [X]					
10.3	Stability Not	e(s):	Stable if stored in acc	cordance with informa	ation listed or	n the product i	nsert.		
	Polymerizati	on:	Will occur [] Wi	II not occur [X]					
10.4	Conditions 1	nditions To Avoid: heat, flames, and sparks							
10.5	Incompatibil	ity - Materials	acid chlorides						
	To Avoid:		phosphorus halides						
			strong acids						
			alkali metals						
			strong oxidizing agents						
			strong reducing agen	ts					
10.6	Hazardous		carbon monoxide						
	Decomposition or		carbon dioxide						
	Byproducts:		sulfur oxides						
				Toxicological					
11.1	Information	Information on The toxicological effects of this product have not been thoroughly studied							
	Toxicologica	al Effects:	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;						
			(mouse): 7,920 mg/kg Inhalation LC50 (rat):): 50,000 mg	/kg; Skin TDL	O (woman): 1,8	00 mg/kg;	
			DMSO - Irritation Dat	· • • • • • • •	ma mild: Ski	n (rabbit): 500	ma (24h) mild:		
	Chronic Toy	inclosical			-			tumoriaon	
	Chronic Toxicological Effects:		DMSO - Investigated as a drug, mutagen, primary irritant, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
	Ellects.		See actual entry in R					filled here.	
			DMSO RTECS Numb	=					
Carci	nogenicity:			Monographs? No	OSHA Rec	gulated? No			
CAS		zardous Com	ponents (Chemical N	• ·	NTP		ACGIH	OSHA	
	NA HDAC Substra				n.a.	n.a.	n.a.	n.a.	
67-68-5 Dimethyl sulfoxi		nethyl sulfoxid	e, anhydrous		n.a.	n.a.	n.a.	n.a.	
			Section 12	. Ecological Ir	formatio	 on		1	
12.1	Toxicity:		Avoid release into the	e environment.					
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persistence	and	No data available.						
	Degradabilit	y:							
12.3	Bioaccumula	ative	No data available.						
	Potential:								
12.4	Mobility in S	oil:	No data available.						
12.5	-		No data available.						
	assessment	:							

Multi-region format



Multi-region format

Revision: 08/07/2019 Supersedes Revision: 04/07/2014

Supersedes Revision: 04/07/2					des Revision: 04/07/2014		
12.6 Othe	er adverse effects:	No data available.					
Section 13. Disposal Considerations							
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.							
Section 14. Transport Information							
14.1 LAN	ID TRANSPORT (US		•				
	oper Shipping Name						
	azard Class:						
UN/NA	Number:	NA1993	Packing Group:		Ш		
14.1 LAN	ID TRANSPORT (Eur	opean ADR/RID):					
ADR/RI	D Shipping Name:	Not dangerous goods.	ngerous goods.				
UN Nur	nber:	1993	Packing Group:		III		
Hazard							
		-					
	ATA Shipping Name:	0 0		L roquiotiona			
Additional Informatior	-	Transport in accordance with lo		•	opted Quantity Code of		
mormation		When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.					
		Therefore packaging does not					
		Section 15. Regu	latory Informa	tion			
FPA SARA	(Superfund Amendr	nents and Reauthorization Act	•				
CAS #	-	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	HDAC Substrate		No	No	No		
67-68-5	Dimethyl sulfoxid	No	No	No			
CAS #	Hazardous Con	ponents (Chemical Name) Other US EPA or State Lists					
NA HDAC Substrate			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
67-68-5	3-5 Dimethyl sulfoxide, anhydrous CAA HAP,ODC: No; CWA NPDES: No; Inventory; CA PROP.65: No			; TSCA: Yes -			
Regulatory	Information	This SDS was prepared in acco	ordance with 29 CFR	1910.1200 and Regu	lation (EC)		
Statement:		No.1272/2008.					
		Section 16. Ot	her Informatio	n			
Revision Date:		08/07/2019					
Additional I	nformation 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.					