

SAFETY DATA SHEET SNVP

Revision: 06/01/2018

Supersedes Revision: 04/14/2018 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:** 24271 SNVP **Product Name:** Synonyms: 3-(nitrosothio)-N-(1-oxopentyl)-valine; S-Nitroso-N-valeryl-DL-penicillamine; 1.2 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 Details of the Supplier of 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 1.4 **Emergency telephone number: Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification **Classification of the Substance or Mixture:** 2.1 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Specific Target Organ Toxicity (single exposure), Category 3 2.2 Label Elements: **GHS Signal Word:** Warning **GHS Hazard Phrases:** H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. **GHS Precaution Phrases:** P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}. P264: Wash {hands} thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. **GHS Response Phrases:** P302+352: IF ON SKIN: Wash with plenty of soap and water. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P332+313: If skin irritation occurs, get medical advice/attention. P337+313: If eye irritation persists, get medical advice/attention. P362+364: Take off contaminated clothing and wash it before reuse. **GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.

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cay					:	Supersedes Revision:			
2.3	Advers	e Human Health	Causes serious eye irritation.						
	Effects	and Symptoms:	Causes skin irritation.						
			Material may be irritating to the			spiratory tract.			
			May be harmful by inhalation	-	bsorption.				
			May cause respiratory syster To the best of our knowledge		conarties have not	t been thoroughly in	vestigated		
		Sec	tion 3. Composition		-				
<u> </u>			ponents (Chemical Name)/	Concentration	EC No./	GHS Classificati			
RTEC	S #	REACH Registra			EC Index No.				
22523 NA	33-99-8	SNVP		100.0 %	NA NA	Skin Corr. 2: H31: Eye Damage 2A:	-		
						STOT (SE) 3: H33			
		ļ	Section 4. Fi	rst Aid Measu	ures				
4.1	Descrip	otion 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						
			-	dical attention. Do No	OT induce vomitir	ng unless directed t	o do so by		
			medical personnel.	Fighting Mor					
			Section 5. Fire	<u> </u>					
5.1	Suitable Extinguishing		Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.						
	Media:		Use water spray to cool fire-exposed containers.						
	Unsulta Media:	able Extinguishing	A solid water stream may be	inefficient.					
5.2		able Properties an	dNo data available.						
0.2	Flammable Properties andNo data available. Hazards:								
			No data available.						
	Flash P	Pt:	No data.						
		ive Limits:	LEL: No data.	UEL: No da	ata.				
	-	nition Pt:	No data.						
5.3	-		s: As in any fire, wear self-conta	ained breathing appa	aratus pressure-d	emand (NIOSH apr	proved or		
		,g	equivalent), and full protectiv						
				0		2			



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	:	Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and	As 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	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material For	Contain spill and collect, as appropriate.
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.
	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 exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Secti	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:	Lab coat
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	Do not take internally.
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe
		Wash thoroughly after handling.
		No data available.
	Se	ection 9. Physical and Chemical Properties
9.1		ical and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	A crystalline solid
	pH:	No data.
	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 or	mm No data.
	Hg):	
	Vapor Density (vs. Air = 1)	: No data.

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	Specific	Gravity (Water =	1):	No data.						
Solubility in Water:			No data.							
Solubility Notes:			~0.12 mg/ml in a 1:7 solution of DMSO:PBS (pH 7.2); ~5 mg/ml in EtOH; ~30 mg/ml in DMSO & DMF;							
	Octanol/Water Partition			No data.						
Coefficient:										
	Autoigni	tion Pt:		No data.						
	Decompo	osition Temperat	ure:	No data.						
	Viscosity	<i>ı</i> :		No data.						
9.2	Other Info	ormation								
	Percent	Volatile:		No data.						
	Molecular Formula & Weight:		ght:	C10H18N2O4S 262.3						
			S	ection 10. Stability and	d Reactiv	⁄ity				
10.1	Reactivit	y:	No dat	ta available.						
10.2	Stability:			able [] Stable [X]						
10.3	Stability	Note(s):	Stable	if stored in accordance with inform	ation listed or	n the product	insert.			
	Polymeri	zation:	Will oc	cur [] Will not occur [X]						
10.4	4 Conditions To Avoid: No data available.									
10.5	Incompa	tibility - Materials	strong	oxidizing agents						
	To Avoid	1:								
10.6	Hazardo	us	carbon dioxide							
	Decomposition or		carbon monoxide							
	Byproducts:		nitrogen oxides							
			sulfur oxides							
			Se	ction 11. Toxicological	Informa	tion				
11.1	Informati Toxicolo	ion on gical Effects:	The to	xicological effects of this product h	ave not been	thoroughly s	tudied.			
CAS #	ŧ	Hazardous Com	ponent	s (Chemical Name)	NTP	IARC	ACGIH	OSHA		
		SNVP			n.a.	n.a.	n.a.	n.a.		
			S	ection 12. Ecological I	nformati	 on				
12.1	Toxicity:			release into the environment.						
Runoff from fire control or dilution water may		nay cause po	llution.							
12.2 Persistence and No data available.										
	Degrada	bility:								
12.3	Bioaccur	nulative	No dat	a available.						
	Potential	:								
12.4	2.4 Mobility in Soil:		No data available.							
12.5 Results of PBT and vPvB		No dat	No data available.							
assessment:										
12.6 Other adverse effects:		verse effects:	No dat	a available.						



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		Section 13. Dispos	sal Considerat	ions				
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
		Section 14. Tran	sport Informat	ion				
14.1 LAND T	RANSPORT (US	DOT):						
DOT Prope	r Shipping Name	: Not dangerous goods.						
DOT Hazar	d Class:							
UN/NA Nur								
		opean ADR/RID):						
	hipping Name:	Not dangerous goods.						
UN Numbe Hazard Cla								
	ss. ANSPORT (ICAO/	ΊΔΤΔ)·						
	Shipping Name:	-						
Additional Tra		Transport in accordance with lo	cal. state. and federa	l regulations.				
Information:								
		Section 15. Regul	latory Informati	tion				
		nents and Reauthorization Act	•					
CAS #	- 	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
225233-99-8	SNVP		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name) Other US EPA or State Lists						
225233-99-8	SNVP		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA					
			PROP.65: No					
Regulatory Info	rmation	This SDS was prepared in acco	rdance with 29 CFR ²	1910.1200 and Regul	ation (EC)			
Statement:		No.1272/2008.						
		Section 16. Oth	ner Information	า				
Revision Date:		06/01/2018						
Additional Info	rmation About	No data available.						
This Product:								
Company Polic	y or Disclaimer:	DISCLAIMER: This information	is believed to be accu	urate 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 fo						
		their particular purposes.						