

Multi-region format

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.							
Details of the Supplier of the Safety Data Sheet:							
Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108							
Label Elements: Labeling according to Regulation (EC) No 1272/2008 [CLP]:							
GHS Precaution Phrases:							
No phrases apply.							
GHS Response Phrases:							
No phrases apply. GHS Storage and Disposal Phrases:							
Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.							
Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.							
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			Section 4	4. First Aid M	leasures			
4.1	Description of First Aid							
	Measure	es:						
	In Case	of Inhalation:	Remove to fresh air. If Get immediate medica	0.0	artificial respiration or give oxy	gen by trained personnel.		
	In Case	of Skin Contact:	Immediately wash skir	n with soap and pler	ity of water for at least 15 minut	es. Remove contaminated		
			-		s occur. Wash clothing before r			
	In Case	of Eye Contact:	Hold eyelids apart and	d flush eyes with ple	nty of water for at least 15 minu	tes. Have eyes examined		
			and tested by medical	personnel.				
	In Case	of Ingestion:			on is conscious. Never give any	÷ ·		
			unconscious person. ( medical personnel.	Get medical attention	n. Do NOT induce vomiting unle	ess directed to do so by		
			Section 5.	Fire Fighting	Measures			
5.1	Suitable	Extinguishing	Use alcohol-resistant	foam, carbon dioxid	e, water, or dry chemical spray.			
	Media:		Use water spray to cool fire-exposed containers.					
	Unsuital	Unsuitable Extinguishing A solid water stream may be inefficient.						
	Media:							
5.2	2 Flammable Properties and No data available.							
	Hazards	-						
	Flash Pt		No data.					
	-	ve Limits:	LEL: No data.	UEL	: No data.			
	Autoigni		No data.	16 ( · · · · · · · · · · · · · · · · · ·				
5.3	Fire Figr	nting Instructions	-		ng apparatus pressure-demanc vent contact with skin and eyes			
			Section 6. Acc	cidental Rele	ase Measures			
6.1	Protectiv	ve Precautions,	Avoid raising and bre	eathing dust, and pro	vide adequate ventilation.			
	Protectiv	ve Equipment and			proved self-contained breathing			
	Emerger	ncy Procedures:	and appropriate pers	onal protection (rubl	per boots, safety goggles, and h	neavy rubber gloves).		
6.2	Environ		Take steps to avoid r	elease into the envi	onment, if safe to do so.			
	Precauti							
6.3			Contain spill and coll					
		ment and Cleanin	ig I ransfer to a chemica	al waste container fo	or disposal in accordance with lo	ocal regulations.		
	Up:							
			Section 7.	Handling ar	d Storage			
7.1			Avoid breathing dust/	÷ .	urs/spray.			
	in Handl	-	Avoid prolonged or re					
7.2			Keep container tightly					
	in Storin	ig:	Store in accordance v	with information liste	d on the product insert.			
		Sec	tion 8. Exposu	re Controls/F	Personal Protection			
8.1	Exposure	e Parameters:						
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe		
685		Alanine, 3-(methy pyrolyzate	Isulfinyl)-, L-,	No data.	No data.	No data.		
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CAS	Partial Chemical Na		ne	OSHA TWA	ACGIH TWA	Other Limits		
		Alanine, 3-(methylsulf pyrolyzate	lanine, 3-(methylsulfinyl)-, L-, yrolyzate		No data.	No data.		
3.2	Exposur	e Controls:		•	•	+		
8.2.1	Enginee	ring Controls Us	e process enclosu	res, local exhaust venti	ilation, or other engineering c	ontrols to control airborn		
	(Ventilat	tion etc.): lev	els below recomm	ended exposure limits.				
8.2.2	Personal protection equipment:							
	Eye Protection: Safety glasses							
	Protecti	ve Gloves: Co	mpatible chemical	-resistant gloves				
	Other Protective Clothing:Lab coat							
	Respira	tory Equipment NIC	OSH approved res	pirator, as conditions w	varrant.			
	(Specify	туре):						
	Work/Hy	<b>/gienic/Maintenan</b> Do	not take internally	' <b>.</b>				
	ce Pract	i <b>ces:</b> Fa	cilities storing or ut	tilizing this material sho	ould be equipped with an eye	wash and a safety showe		
	Wash thoroughly aft			er handling.				
		No	data available.					
		Sect	ion 9. Phys	ical and Chem	ical Properties			
9.1	Informat	ion on Basic Physica		-				
	Physica	I States:	[]Gas [	] Liquid [X] Solid				
	Appeara	ance and Odor:	A crystalline s	solid				
	Melting		No data.					
	Boiling		No data.					
	Flash Pt		No data.					
	=	tion Rate:	No data.					
		bility (solid, gas):	No data availa					
	-	ve Limits:	LEL: No data	l.	UEL: No data.			
	Vapor P Hg):	ressure (vs. Air or mr	n No data.					
	Vapor D	ensity (vs. Air = 1):	No data.					
	Specific	Gravity (Water = 1):	No data.					
	Solubilit	ty in Water:	No data.					
	Solubilit	ty Notes:	~10 mg/ml in	PBS (pH 7.2);				
	Autoign	ition Pt:	No data.					
9.2	Other Inf	ormation						
	Percent	Volatile:	No data.					
	Molecul	ar Formula & Weight:	C4H9NO3S	151.2				
			Section 10	. Stability and I	Reactivity			
10.1	Reactivi	ty: No	data available.					
10.2	Stability			ble [ X ]				
10.3	-				on listed on the product inser	t.		
	Polyme	rization: Wi	l occur [ ] Wi	II not occur [ X ]				
10.4	Conditio	ons To Avoid: No	data available.					
10.5	Incompa To Avoi	atibility - Materials No d:	data available.					
10.6	Hazardo	ous No	data available.					



	Decomp	position or						
	Byprod	ucts:						
			Section 11. Toxico	ological Inform	nation			
11.1	Informa	tion on	The toxicological effects of this	s product have not be	en thoroughly st	udied.		
	Toxicol	ogical Effects:						
CAS #	ŧ	Hazardous Con	nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
6853	3-87-8	Alanine, 3-(meth	ylsulfinyl)-, L-, pyrolyzate	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecol	ogical Informa	ation	•		
12.1	Toxicity	/:	Avoid release into the environ	ment.				
			Runoff from fire control or dilut	ion water may cause	pollution.			
12.2	Persiste	ence and	No data available.					
	Degrada	ability:						
12.3	Bioaccu	umulative	No data available.					
	Potentia	al:						
12.4	.4 Mobility in Soil: No data available.							
12.5	Results	of PBT and vPvE	<b>3</b> No data available.					
	assessr	nent:						
12.6	Other a	dverse effects:	No data available.					
			Section 13. Dispo	sal Considera	ations			
13.1	Waste D	Disposal Method:	Dispose in accordance with lo	cal, state, and federa	l regulations.			
			Section 14. Trai	nsport Informa	ation			
14.1	LAND 1	RANSPORT (US	DOT):	-				
D	OT Prope	er Shipping Name	: Not dangerous goods.					
	-	d Class:						
U	N/NA Nu	mber:						
14.1	LAND 1	RANSPORT (Eu	ropean ADR/RID):					
A	DR/RID S	hipping Name:	Not dangerous goods.					
U	N Numbe	er:						
Ha	azard Cla	ISS:						
14.3	AIR TR	ANSPORT (ICAO	/IATA):					
IC		Shipping Name:	Not dangerous goods.					
Addit	ional Tra	nsport	Transport in accordance with	local, state, and fede	ral regulations.			
Inform	nation:							
			Section 15. Regu	latory Inform	ation			
EPA S	SARA (Si	uperfund Amendi	ments and Reauthorization Act	t of 1986) Lists				
CAS #	<i>‡</i>	Hazardous Con	nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)	
685	3-87-8	Alanine, 3-(meth	ylsulfinyl)-, L-, pyrolyzate	No	No	No		
CAS #	<i>‡</i>	Hazardous Con	nponents (Chemical Name)	Other US EPA o	US EPA or State Lists			
6853	3-87-8	Alanine, 3-(meth	ylsulfinyl)-, L-, pyrolyzate	CAA HAP,ODC: PROP.65: No	No; CWA NPDE	ES: No; TSCA	: No; CA	

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Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:	No.1272/2008.				
	Section 16. Other Information				
Revision Date:	05/12/2015				
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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