

Revision: 03/10/2015 Supersedes Revision: 10/29/2007

	acco	ording to Regulation (EC) No. 1907/2006 as amended by (I	EC) No. 1272/2008				
	Section 1. Id	dentification of the Substance/Mixture and of th	e Company/Undertaking				
1.1	Product Code:	10009022					
	Product Name:	(S)-SLV 319					
	Synonyms:	3-(4-chlorophenyl)-N-[(4-chlorophenyl)sulfonyl]-					
1.2	carboximidamide; Ibipinabant; BMS 646256; JD 5001; Relevant identified uses of the substance or mixture and uses advised against:						
1.2		_					
1.3	Relevant identified uses:For research use only, not for human or veterinary use.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 num						
.4	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
	Classification of the Substance or Mixture:						
	Classification according to	o Regulation (EC) No 1272/2008 [CLP]:					
		o Regulation (EC) No 1272/2008 [CLP]:					
	Classification according to	o Regulation (EC) No 1272/2008 [CLP]: Category 2					
	Classification according to Skin Corrosion/Irritation, Serious Eye Damage/Eye	o Regulation (EC) No 1272/2008 [CLP]: Category 2					
2.1.1	Classification according to Skin Corrosion/Irritation, Serious Eye Damage/Eye Specific Target Organ To Label Elements:	o Regulation (EC) No 1272/2008 [CLP]: , Category 2 e Irritation, Category 2A exicity (single exposure), Category 3					
2.1.1 2.2	Classification according to Skin Corrosion/Irritation, Serious Eye Damage/Eye Specific Target Organ To Label Elements:	o Regulation (EC) No 1272/2008 [CLP]: , Category 2 e Irritation, Category 2A					
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2.1.1	Classification according to Skin Corrosion/Irritation, Serious Eye Damage/Eye Specific Target Organ To Label Elements: Labeling according to Reg GHS Signal Word:	o Regulation (EC) No 1272/2008 [CLP]: , Category 2 e Irritation, Category 2A exicity (single exposure), Category 3					
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2.1.1 2.2	Classification according to Skin Corrosion/Irritation, Serious Eye Damage/Eye Specific Target Organ To Label Elements: Labeling according to Reg GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio	n.					
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2.1 2.1.1 2.2 2.2.1	Classification according to Skin Corrosion/Irritation, Serious Eye Damage/Eye Specific Target Organ To Label Elements: Labeling according to Reg GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirato GHS Precaution Phrases P261: Avoid breathing {dus P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W P304+340: IF INHALED: R P305+351+338: IF IN EYE to do. Continue rinsing.	De Regulation (EC) No 1272/2008 [CLP]: , Category 2 a Irritation, Category 2A oxicity (single exposure), Category 3 gulation (EC) No 1272/2008 [CLP]: Warning n. irritation. bry irritation. bry irritation. ir: st/fume/gas/mist/vapors/spray}. ughly after handling. oves/protective clothing/eye protection/face protection	tion comfortable for breathing.				



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	P337-	+313: If eye irritation	n persists, get medical advice/a	attention.				
	P362-	+364: Take off conta	aminated clothing and wash it	pefore reuse.				
	GHS	Storage and Dispo	sal Phrases:					
	Pleas	e refer to Section 7	for Storage and Section 13 for	Disposal information	۱.			
2.3	Advers	e Human Health	Causes serious eye irritation					
	Effects	and Symptoms:	Causes skin irritation.					
			Material may be irritating to t	he mucous membrar	es and upper res	spiratory tract.		
			May be harmful by inhalation		osorption.			
			May cause or respiratory sys					
			I o the best of our knowledge	e, the toxicological pro	operties have not	t been thoroughly investigated.		
		Sec	tion 3. Composition	/Information c	on Ingredie	nts		
CAS RTEC	-	Hazardous Com REACH Registra	onents (Chemical Name)/ Concentration		EC No./ EC Index No.	GHS Classification		
4642	13-10-3	(S)-SLV 319		100.0 %	NA	Skin Corr. 2: H315		
NA					NA	Eye Damage 2A: H319		
						STOT (SE) 3: H335 H336		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Descri	ption of First Aid	No data available.					
	Measu	res:						
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.					
			Get immediate medical attention.					
	In Case	e 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	e 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	e 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.					
			Section 5. Fire	Fighting Mea	Isures			
5.1	Suitabl	le Extinguishing	Use alcohol-resistant foam, o		, or dry chemical	spray.		
	Media:		Use water spray to cool fire-	exposed containers.				
		0 0	A solid water stream may be	inefficient.				
	Media:							
5.2		-	dNo data available.					
	Hazard							
	Flash F		No data.					
	-	ive Limits:	LEL: No data.	UEL: No da	ta.			
_	-	nition Pt:	No data.					
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-conta equivalent), and full protectiv		-			
1								



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	HIMICAL				Supersedes Re	vision: 10/29/2007		
			Section 6. Ac	cidental Release Me	easures			
6.1	Protecti	ve Precautions,	Avoid raising and bre	eathing dust, and provide adeq	uate ventilation.			
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or r							
	Emerge	ncy Procedures:	and appropriate pers	onal protection (rubber boots,	safety goggles, and heavy ru	ubber gloves).		
6.2	Environmental Take steps to avoid release into the environment, if safe to do so.							
	Precaut	ions:						
6.3 Methods and Material For Contain spill and collect, as appropriate.								
		ment and Cleani	ng Transfer to a chemic	al waste container for disposal	in accordance with local reg	gulations.		
	Up:							
			Section 7.	Handling and Stor	age			
7.1	Precaut	ions To Be Takeı	n Avoid breathing dust/	fume/gas/mist/vapours/spray.				
	in Hand	ling:	Avoid prolonged or re	epeated exposure.				
7.2	Precaut	ions To Be Takeı	n Keep container tightly	/ closed.				
	in Stori	ng:	Store in accordance	with information listed on the p	roduct insert.			
		Sec	tion 8. Exposu	re Controls/Persona	al Protection			
8.1	Exposur	e Parameters:						
CAS	#	Partial Chemica	l Name	Britain EH40	France VL	Europe		
4642	13-10-3	(S)-SLV 319		No data.	No data.	No data.		
CAS	#	Partial Chemica	l Name	OSHA TWA	ACGIH TWA	Other Limits		
4642	13-10-3	(S)-SLV 319		No data.	No data.	No data.		
8.2	Exposu	e Controls:		•	•	•		
8.2.1	Enginee	ering Controls	Use process enclosu	res, local exhaust ventilation, c	or other engineering controls	to control airborne		
	(Ventila	tion etc.):	levels below recomm	ended exposure limits.				
8.2.2	Person	al protection equ	ipment:					
	Eye Pro	tection:	Safety glasses					
		ve Gloves:	Compatible chemical-resistant gloves					
	Other P	rotective Clothin	-					
	-	tory Equipment	NIOSH approved respirator, as conditions warrant.					
	(Specify							
		-	n Do not take internally					
	ce Practices:		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.					
			No data available.					



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			ection 9. Physical and	d Chemical I	roperties				
9.1	Information on Basic Physical and Chemical Properties								
	Physica		[]Gas []Liquid	[X] Solid					
	Appearance and Odor:		A crystalline solid						
	Melting	Point:	No data.						
	Boiling Point:		No data.						
	Flash Pt	:	No data.	No data.					
	Evaporation Rate: Explosive Limits: Vapor Pressure (vs. Air or mm		No data.	No data.					
			LEL: No data.	UEL: I	No data.				
			r mm No data.						
	Hg):								
	Vapor D	ensity (vs. Air = 1): No data.						
	Specific	Gravity (Water =	1): No data.						
	Solubilit	y in Water:	No data.						
	Solubilit	y Notes:	~0.25 mg/ml in 1:2 ethan	ol:PBS (pH 7.2); ~3	30 mg/ml in DMS	SO & DMF;			
	Autoign	ition Pt:	No data.						
9.2	Other Inf	ormation							
	Percent	Volatile:	No data.						
	Molecula	ar Formula & Wei	ght: C23H20Cl2N4O2S	487.4					
			-	ty and Page	tiv /itv /				
			Section 10. Stabili	ty and Reac	uvity				
0.1	Reactivi	-	No data available.						
0.2	Stability		Unstable [] Stable [X]						
10.3	-	Note(s):	Stable if stored in accordance wi		d on the product	insert.			
	Polymer	ization:	Will occur [] Will not occur	[X]					
10.4	Conditio	ons To Avoid:	No data available.						
10.5	Incompa	atibility - Materials	s No data available.						
	To Avoid:								
10.6	Hazardo	ous	No data available.						
	Decomp	osition Or							
	Byproducts:								
			Section 11. Toxicol	ogical Inform	nation				
1.1	Informat	tion on	The toxicological effects of this p			udied.			
		ogical Effects:							
CAS		-	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	" 13-10-3	(S)-SLV 319		n.a.		n.a.	n.a.		
-+0+2	10-10-0			•	n.a.		11.a.		
			Section 12. Ecolo	gical Informa	ation				
2.1	Toxicity	:	Avoid release into the environme						
			Runoff from fire control or dilution	n water may cause	pollution.				
2.2	Persiste	nce and	No data available.						
	Degrada	ıbility:							
12.3	Bioaccumulative No da		No data available.						
	Potentia	l:							
12.4	Mobility	in Soil:	No data available.						
12.5	-		No data available.						
						-			
						Ν	Iulti-region fo		



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assessn	nent:				
12.6 Other ad	verse effects:	No data available.			
		Section 13. Dispos	al Considera	tions	
13.1 Waste D	isposal Method:	Dispose in accordance with loca	I, state, and federal	regulations.	
		Section 14. Trans	sport Informa	tion	
14.1 LAND T	RANSPORT (US I	DOT):			
DOT Prope	r Shipping Name:	Not dangerous goods.			
DOT Hazar					
UN/NA Nur		/ `			
	RANSPORT (Euro				
UN Numbe	hipping Name: r·	Not dangerous goods.			
Hazard Cla					
14.3 AIR TRA	ANSPORT (ICAO/I	ATA):			
ΙCAO/ΙΑΤΑ	Shipping Name:	Not dangerous goods.			
Additional Trai	nsport	Transport in accordance with loo	cal, state, and federa	al regulations.	
Information:					
		Section 15. Regul	atory Informa	ation	
EPA SARA (Su	perfund Amendm	ents and Reauthorization Act o	of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
464213-10-3	(S)-SLV 319		No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
464213-10-3	464213-10-3 (S)-SLV 319 CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
		Section 16. Oth	ner Informatio	n	
Revision Date:		03/10/2015			
Additional Info	rmation About	No data available.			
This Product: Company Polic	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their or their particular purposes.	er, we make no warr to such information,	ranty of merchanta and we assume r	ability or any other warranty, no liability resulting from its