

Multi-region format

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		according to	o Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/83	30 and US OSHA HCS	2015
		Section 1. Ide	entification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Code:13312Product Name:H-9 (hydrochloride)Synonyms:N-(2-aminoethyl)-5-isoquinolinesulfonamide, dihydrochloride; Protein Kinase Inhibitor H-9;					Protein Kinase Inhibitor H-9;
1.2			he substance or mixture a	-	-	
	Releva	ant identified uses:	For research use only, no	ot for human or veteri	inary use.	
1.3		of the Supplier of the any Name:	e Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
		ite address:	www.caymanchem.com			
		nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ncy telephone numb jency Contact:	er: CHEMTREC Within USA	and Canada:	1 (00)	0)424-9300
	Emeré	Jency Contact.	CHEMTREC Outside US		•	3)527-3887
			Section 2. Haz	zards Identific	ation	
2.1	Classifi	cation of the Substar				
2.2		lements:				
2.3	GHS I Based GHS I No ph GHS I No ph GHS S Please Advers	Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M T	Storage and Section 13 for laterial may be irritating to th lay be harmful by inhalation lay cause eye, skin, or respi	Disposal information ne mucous membran , ingestion, or skin at iratory system irritatio , the toxicological pro	n. les and upper res osorption. on. operties have not	piratory tract. been thoroughly investigated.
CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification   RTECS # REACH Registration No. EC Index No. EC Index No.				GHS Classification		
116700-36-8 H-9 (hydrochlori NA		H-9 (hydrochloride)		100.0 %	NA NA	No data available.



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		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.				
		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	A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties an	dNo data available.				
	Hazards:					
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	<b>s:</b> 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.				
		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment and	d 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.					
		ngTransfer 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.				
	Sec	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					

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8.2	Exposure Controls:						
8.2.1	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 equi	pment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing	g:Lab coat					
	<b>Respiratory Equipment</b>	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintena	n Do not take internally.					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety					
		shower.					
		Wash thoroughly after handling.					
		No data available.					
	S	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Phy	sical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline solid					
	pH:	No data.					

	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.	
	Specific Gravity (Water = 1):	No data.	
	Solubility in Water:	No data.	
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2)	; ~10 mg/ml in DMSO; ~1.5 mg/ml in DMF;
	Octanol/Water Partition	No data.	
	Coefficient:		
	Autoignition Pt:	No data.	
	Decomposition Temperature:	No data.	
	Viscosity:	No data.	
9.2	Other Information		
	Percent Volatile:	No data.	
	Molecular Formula & Weight:	C11H13N3O2S · 2HCI	324.2

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		Section 10. Stability	and Reacti	vity			
10.1 Reactiv	'ity:	No data available.					
10.2 Stabilit	Stability: Unstable [ ] Stable [ X ]						
<b>0.3 Stability Note(s):</b> Stable if stored in accordance with information listed on the product insert.							
Polymerization: Will occur [ ] Will not occur [ X ]							
10.4 Conditi							
10.5 Incomp	atibility - Materials	strong acids					
To Avo	id:	strong bases					
		strong oxidizing agents					
		strong reducing agents					
10.6 Hazard	ous	No data available.					
Decom	position or						
Byprod	ucts:						
		Section 11. Toxicolog	ical Informa	ation			
11.1 Informa		The toxicological effects of this prod	uct have not beer	n thoroughly st	udied.		
Toxicol	ogical Effects:						
CAS #	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
116700-36-8	H-9 (hydrochlorid	e)	n.a.	n.a.	n.a.	n.a.	
	•	Section 12. Ecologic	al Informat	ion	•	·	
12.1 Toxicity	<i>.</i>	Avoid release into the environment.					
	Runoff from fire control or dilution water may cause pollution.						
12.2 Persist	ence and	No data available.	, i				
Degrad							
	umulative	No data available.					
Potenti							
	y in Soil:	No data available.					
-		No data available.					
assess							
	dverse effects:	No data available.					
			Canaidarat	iono			
12.4 Westel		Section 13. Disposal					
13.1 Waste I	Disposal Method:	Dispose in accordance with local, st		-			
		Section 14. Transpo	ort informat	ion			
	TRANSPORT (US	-					
-	er Shipping Name	Not dangerous goods.					
DOT Haza							
UN/NA Nu							
	TRANSPORT (Euro	· · ·					
	Shipping Name:	Not dangerous goods.					
UN Numbe							
Hazard Cla	ass:						
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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

e: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

# Section 15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
116700-36-8	H-9 (hydrochloride)		No	No	No	
CAS #	# Hazardous Components (Chemical Name)		Other US EPA or	State Lists	•	
116700-36-8	H-9 (hydrochloride)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		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:		12/11/2018				
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.				