

Revision: 02/20/2019 Supersedes Revision: 05/17/2016

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015						
	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking						
.1	Product Code:	19188					
	Product Name:	Amoxicillin (hydrate)					
	Synonyms:		nyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-aza				
	eye.	icyclo[3.2.0]heptane-2-carboxylic acid, trihydra					
.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.						
.3	······································						
.5	Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company						
	company nume.	1180 E. Ellsworth Rd.					
		Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone nur	mber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
	Classification of the Suba						
1	Classification of the Substance or Mixture:						
.1							
2.1	Respiratory Sensitization	on, Category 1					
2.1 2.2		on, Category 1					
	Respiratory Sensitization Skin Sensitization, Cate	on, Category 1					
	Respiratory Sensitization Skin Sensitization, Cate	on, Category 1					
	Respiratory Sensitization Skin Sensitization, Cate Label Elements:	on, Category 1 egory 1					
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word:	on, Category 1 egory 1 Danger					
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller	on, Category 1 egory 1 Danger	led.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller	pon, Category 1 agory 1 Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal	led.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrase	pon, Category 1 agory 1 Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal	led.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrases P261: Avoid breathing {du	pon, Category 1 egory 1 Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal					
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrase P261: Avoid breathing (du P272: Contaminated work P280: Wear {protective gl	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal es: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protectio	e.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrase P261: Avoid breathing (du P272: Contaminated work P280: Wear {protective gl	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal es: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace	e.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrase P261: Avoid breathing {dr P272: Contaminated work P280: Wear {protective gl P285: In case of inadequa GHS Response Phrases	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal s: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protecti ate ventilation wear respiratory protection. S:	e.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrases P261: Avoid breathing {dr P272: Contaminated word P280: Wear {protective gl P285: In case of inadequa GHS Response Phrases P302+352: IF ON SKIN: Y	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal s: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection ate ventilation wear respiratory protection. S: Wash with plenty of soap and water.	e. ion}.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrase P261: Avoid breathing {dr P272: Contaminated work P280: Wear {protective gl P285: In case of inadequa GHS Response Phrases P302+352: IF ON SKIN: Y P304+340: IF INHALED:	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal s: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protecti ate ventilation wear respiratory protection. : Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a pos	e. ion}.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrases P261: Avoid breathing {dr P272: Contaminated word P280: Wear {protective gl P285: In case of inadequa GHS Response Phrases P302+352: IF ON SKIN: M P304+340: IF INHALED: P333+313: If skin irritation	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal s: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protecti ate ventilation wear respiratory protection. : Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a pos n or rash occurs, seek medical advice/attention.	e. ion}. sition comfortable for breathing.				
	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause an aller H334: May cause allergy GHS Precaution Phrases P261: Avoid breathing {dr P272: Contaminated work P280: Wear {protective gl P285: In case of inadequa GHS Response Phrases P302+352: IF ON SKIN: N P304+340: IF INHALED: P333+313: If skin irritation P342+311: If experiencing	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal rs: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection loves/protective clothing/eye protection/face protection ate ventilation wear respiratory protection. S: Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posin or rash occurs, seek medical advice/attention. g respiratory symptoms call a POISON CENTER or	e. ion}. sition comfortable for breathing.				
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	Respiratory Sensitization Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H334: May cause allergy GHS Precaution Phrases P261: Avoid breathing {dr P272: Contaminated word P280: Wear {protective gl P285: In case of inadequa GHS Response Phrases P302+352: IF ON SKIN: N P304+340: IF INHALED: P333+313: If skin irritation P342+311: If experiencing P362+364: Take off conta	Danger rgic skin reaction. or asthma symptoms or breathing difficulties if inhal s: ust/fume/gas/mist/vapors/spray}. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protecti ate ventilation wear respiratory protection. Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a pos n or rash occurs, seek medical advice/attention. g respiratory symptoms call a POISON CENTER or aminated clothing and wash it before reuse.	e. ion}. sition comfortable for breathing. doctor/physician.				

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2.3	Advers	e Human Health	Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause allergy or asthma symptoms or breathing difficulties if inhaled.						
	Effects	and Symptoms:							
			May cause an allergic skin re						
			May cause eye, skin, or resp						
			To the best of our knowledge	e, the toxicological pr	operties have no	t been thoroughly investigated.			
		Sec	tion 3. Composition	/Information of	on Ingredie	nts			
CAS # / Hazardous Comp RTECS # REACH Registra			ponents (Chemical Name)/ tion No.	Concentration 100.0 %	EC No./ EC Index No. 612-127-4 NA	GHS Classification			
	61336-70-7 Amoxicillin trihydra XH8310000		9			Skin Sens. 1: H317 Resp. Sens. 1: H334			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Descrij	otion of First Aid							
	Measu	res:							
	In Case	e of Inhalation:			respiration or given	ve oxygen by trained personnel			
			Get immediate medical attent						
	In Case	e of Skin Contact:	-			5 minutes. Remove contaminate			
			clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
	In Case	e of Eye Contact:			ater for at least 1	5 minutes. Have eyes examine			
	In Case	of Ingestion:	and tested by medical personnel.						
	in ous	or 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	asures				
L 5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, o			spray.			
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuita Media:		g A solid water stream may be	inefficient.					
5.2	Flammable Properties andNo data available. Hazards:								
			No data available.						
	Flash F	Pt:	No data.						
		Pt: ive Limits:	No data. LEL: No data.	UEL: No da	ta.				
	Explos			UEL: No da	ta.				
5.3	Explos Autoig	ive Limits: nition Pt:	LEL: No data.			emand (NIOSH approved or			



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		Section 6. Accidental Release Measures			
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.			
		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		Contain spill and collect, as appropriate.			
	Containment and CleaningTransfer 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 shower.			
		h 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			
	рН:	No data.			
	Melting Point:	No data.			
	Boiling Point:	No data.			
	Flash Pt:	No data.			
	Evaporation Rate:	No data. No data available.			
	Flammability (solid, gas): Explosive Limits:	LEL: No data. UEL: No data.			
	Vapor Pressure (vs. Air or				
	Hg):				
	Vapor Density (vs. Air = 1)	No data.			
		Multi-region formation			



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	-	Gravity (Water =							
	Solubilit	y in Water:	No data.						
	Solubilit	y Notes:	~1 mg/ml in PBS (pH 7.2);	~1 mg/ml in PBS (pH 7.2); ~25 mg/ml in DMSO; ~5 mg/ml in DMF; No data.					
	Octanol/	Water Partition	No data.						
	Coefficie	ent:							
	Autoigni	tion Pt:	No data.						
	Decomp	osition Temperat	ure: No data.						
	Viscosit	y:	No data.						
9.2	Other Inf	ormation							
	Percent	Volatile:	No data.						
	Molecula	ar Formula & Wei	ght: C16H19N3O5S • 3H2O	419.4					
			Section 10. Stability	and Reactiv	/itv				
10.1	Reactivi	tv:	No data available.		,				
10.2	Stability	-	Unstable [] Stable [X]						
10.3	Stability		Stable if stored in accordance with	information listed o	n the product	insert			
10.0	Polymer		Will occur [] Will not occur [)						
10.4	-			(]					
10.4		ns To Avoid:	No data available.						
10.5	•	-	strong oxidizing agents						
	To Avoid								
10.6	Hazardo		carbon dioxide						
	=	osition or	carbon monoxide						
	Byprodu	icts:	nitrogen oxides						
			sulfur oxides						
			Section 11. Toxicolog	gical Informa	ition				
11.1	Informat	ion on	The toxicological effects of this product have not been thoroughly studied.						
	Toxicolo	gical Effects:	Amoxicillin (hydrate) - Toxicity Data: Oral LD50 (rat): >15 gm/kg; Intraperitoneal LD50 (rat): 2870 mg/kg; Subcutaneous LD50 (rat): >8 gm/kg; Oral LD50 (mouse): >25 gm/kg; Intraperitoneal LD50 (mouse): 3590 mg/kg; Subcutaneous LD50 (mouse): >20 gm/kg;						
	Chronic	Toxicological	Amoxicillin (hydrate) - Investigated as a reproductive effector.						
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here						
	S		see actual entry in RTECS for complete information.						
			Amoxicillin (hydrate) RTECS Numb	ber: XH8310000					
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
6133	36-70-7	Amoxicillin trihydr	ate	n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecologi	cal Informati	on				
12.1	Toxicity:		Avoid release into the environment.						
	-		Runoff from fire control or dilution water may cause pollution.						
12.2	Persistence and No da		No data available.						
	Degrada	bility:							
12.3			No data available.						
	Potentia								
12.4	Mobility		No data available						
	-			No data available.					
12.5			3 No data available.						
	assessm								
12.6	Other ad	verse effects:	No data available.						
1						Ν	Iulti-region format		



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Supersedes Revision: 05/17/2016 Section 13. Disposal Considerations Dispose in accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1 DOT Proper Shipping Name: Not dangerous goods. **DOT Hazard Class:** UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. **UN Number:** Hazard Class: AIR TRANSPORT (ICAO/IATA): 14.3 ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 61336-70-7 Amoxicillin trihydrate No No No CAS # Other US EPA or State Lists Hazardous Components (Chemical Name) 61336-70-7 CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA Amoxicillin trihydrate PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) **Regulatory Information** No.1272/2008. Statement: Section 16. Other Information 02/20/2019 **Revision Date:** Additional Information About No data available. This Product: DISCLAIMER: This information is believed to be accurate and represents the best information **Company Policy or Disclaimer:** 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.