

Revision: 02/14/2017

	aco						
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking				
	Product Code:	16021					
	Product Name:	Ciclopirox					
	Synonyms:	6-cyclohexyl-1-hydroxy-4-methyl-2(1H)-pyridin	one; HOE 296b;				
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	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				
ŀ	Emergency telephone nu	mber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identification	ation				
I	Classification of the Subs	stance or Mixture:					
••	Acute Toxicity: Inhalation, Category 4						
	Acute Toxicity: Inhalati						
	Acute Toxicity: Inhalati Acute Toxicity: Oral, Ca	on, Category 4					
	-	on, Category 4 ategory 4					
	Acute Toxicity: Oral, Ca	on, Category 4 ategory 4 ategory 4					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca	on, Category 4 ategory 4 ategory 4					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey	on, Category 4 ategory 4 ategory 4					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey	on, Category 4 ategory 4 ategory 4					
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2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements:	on, Category 4 ategory 4 ategory 4 ve Irritation, Category 2					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word:	on, Category 4 ategory 4 ye Irritation, Category 2 Warning					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases:	on, Category 4 ategory 4 ye Irritation, Category 2 Warning ed.					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow	on, Category 4 ategory 4 ye Irritation, Category 2 <b>Warning</b> ed. with skin.					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful in contact	on, Category 4 ategory 4 ye Irritation, Category 2 <b>Warning</b> ed. with skin.					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful in contact H319: Causes serious ey	on, Category 4 ategory 4 ye Irritation, Category 2 <b>Warning</b> ed. with skin. re irritation.					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful if swallow H312: Harmful if ncontact H319: Causes serious ey H332: Harmful if inhaled. GHS Precaution Phrase	on, Category 4 ategory 4 ye Irritation, Category 2 <b>Warning</b> ed. with skin. re irritation.					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful if swallow H312: Harmful if ncontact H319: Causes serious ey H332: Harmful if inhaled. GHS Precaution Phrase	on, Category 4 ategory 4 ye Irritation, Category 2 Warning ed. with skin. re irritation. es: ust/fume/gas/mist/vapors/spray}.					
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful if swallow H319: Causes serious ey H332: Harmful if inhaled. GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thor	on, Category 4 ategory 4 ye Irritation, Category 2 Warning ed. with skin. re irritation. es: ust/fume/gas/mist/vapors/spray}.	on}.				
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful if swallow H319: Causes serious ey H332: Harmful if inhaled. GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thor	on, Category 4 ategory 4 ye Irritation, Category 2 Warning ed. with skin. te irritation. PS: ust/fume/gas/mist/vapors/spray}. oughly after handling. loves/protective clothing/eye protection/face protecti	on}.				
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2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful if swallow H312: Harmful in contact H319: Causes serious ey H332: Harmful if inhaled. GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thor P280: Wear {protective g GHS Response Phrases P301+312: IF SWALLOW P302+352: IF ON SKIN: 1 P304+340: IF INHALED:	on, Category 4 ategory 4 ye Irritation, Category 2 Warning ed. with skin. re irritation. es: ust/fume/gas/mist/vapors/spray}. oughly after handling. loves/protective clothing/eye protection/face protecti s: /ED: P312: Call a POISON CENTER or doctor/physi Wash with plenty of soap and water.	cian if you feel unwell. tion comfortable for breathing.				
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful if swallow H312: Harmful in contact H319: Causes serious ey H332: Harmful if inhaled. GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thor P280: Wear {protective g GHS Response Phrases P301+312: IF SWALLOW P302+352: IF ON SKIN: 1 P304+340: IF INHALED:	on, Category 4 ategory 4 ye Irritation, Category 2 Warning ed. with skin. re irritation. es: ust/fume/gas/mist/vapors/spray}. oughly after handling. loves/protective clothing/eye protection/face protecti s: /ED: P312: Call a POISON CENTER or doctor/physi Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a pos	cian if you feel unwell. tion comfortable for breathing.				
2	Acute Toxicity: Oral, Ca Acute Toxicity: Skin, Ca Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H312: Harmful if swallow H312: Harmful in contact H319: Causes serious ey H332: Harmful if inhaled. GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thor P280: Wear {protective g GHS Response Phrases P301+312: IF SWALLOW P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EY	on, Category 4 ategory 4 ye Irritation, Category 2 Warning ed. with skin. re irritation. s: ust/fume/gas/mist/vapors/spray}. oughly after handling. loves/protective clothing/eye protection/face protecti s: /ED: P312: Call a POISON CENTER or doctor/physi Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a pos ES: Rinse cautiously with water for several minutes.	cian if you feel unwell. tion comfortable for breathing.				



	-			Ciclopirox		Revision: 02/14/2017			
cay	man					Revision. 02/14/2017			
	P337+	-313: If eye irritation	n persists, get medical advice/a	attention.					
	P362+	+364: Take off conta	aminated clothing and wash it	before reuse.					
	GHS Storage and Disposal Phrases:								
	Please	e refer to Section 7	for Storage and Section 13 for	Disposal informatio	n.				
2.3	Advers	e Human Health	Causes serious eye irritation						
	Effects	and Symptoms:	Harmful if inhaled, swallowed	d, or in contact with	skin.				
			Material may be irritating to the mucous membranes and upper respiratory tract.						
			May cause eye, skin, or resp						
			To the best of our knowledge	e, the toxicological p	roperties have no	t been thoroughly investigated.			
		Sec	tion 3. Composition	/Information	on Ingredie	ents			
CAS	#/		ponents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTEC	CS #	REACH Registra	tion No.		EC Index No.				
	2-05-0	ciclopirox		100.0 %	249-577-2	Acute Tox.(O) 4: H302			
0077	85200				NA	Acute Tox.(D) 4: H312			
						Eye Damage 2A: H319 Acute Tox.(I) 4: H332			
<b>I</b>			<u> </u>			Acute 10x.(1) 4. 11002			
			Section 4. Fi	rst Aid Meas	ures				
4.1	Descrip	otion of First Aid							
	Measur	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 of Skin Contact:								
			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 persor						
	In Case	e of Ingestion:	Wash out mouth with water p						
			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.						
			medical personnel.						
			Section 5. Fire						
5.1		e Extinguishing	Use alcohol-resistant foam, o		r, or dry chemica	l spray.			
	Media: Use water spray to cool fire-exposed containers.								
	Unsuita Media:	able Extinguishing	g A solid water stream may be	inefficient.					
5.2	Flamma	able Properties ar	ndNo data available.						
	Hazard	s:							
			No data available.						
	Flash F	Pt:	No data.						
	Explos	ive Limits:	LEL: No data.	UEL: No da	ata.				
	-	nition Pt:	No data.						
5.3	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or								
			equivalent), and full protectiv		-				

Multi-region format



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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.					
	Section	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipr	nent:					
	Eye Protection:	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						
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
		Nash thoroughly after handling.					
	I	No data available.					
		ction 9. Physical and Chemical Properties					
9.1	-	cal 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.					
	vapor Density (vs. All = 1):						
		Multi-region format					

	• • • •	<b>a</b> 1: <b>a</b> 1: :	~	NI 1.4					
	Specific Gravity (Water = 1):		No data.						
	Solubility in Water:		No data.						
	Solubility Notes: Octanol/Water Partition		~1 mg/ml in PBS (pH 7.2); ~30 mg/ml in EtOH; ~15 mg/ml in DMSO & DMF;						
			No data.						
	Coefficie	ent:							
	Autoigni	tion Pt:		No data.					
	Decomp	osition Temperatu	ure:	No data.					
	Viscosit	y:		No data.					
9.2	Other Inf	-							
0.2	Percent			No data.					
			aht.	C12H17NO2	207.3				
	WOIECUIA	ar Formula & Weig	ynt.	CIZITI/NOZ	207.3				
			S	ection 10.	Stability and	Reactiv	/ity		
10.1	Reactivit	t <b>y:</b>	No dat	a available.					
10.2	Stability	:	Unstat	ole [ ] Stat	ole [ X ]				
10.3	Stability		Stable		ordance with informa	tion listed o	on the product	insert.	
	Polymer				I not occur [ X ]		·		
10.4	-	ns To Avoid:		a available.					
					_				
10.5	-	tibility - Materials	strong	oxidizing agent	S				
	To Avoid								
10.6	Hazardo			on dioxide					
	Decomp	osition or		n monoxide					
	Byprodu	icts:	nitroge	en oxides					
			Se	ction 11.	Foxicological	Informa	ation		
11.1	Informat	ion on			ts of this product ha			udied	
		gical Effects:	1110 10	nicelegical ener			and digitity of		
0404		- i				NTD		ACGIH	
CAS #		Hazardous Com	ponent	s (chemical Na	amej	NTP	IARC		OSHA
2934	2-05-0	ciclopirox				n.a.	n.a.	n.a.	n.a.
	Section 12. Ecological Information								
12.1	Toxicity:		Avoid	release into the	environment.				
			Runoff	off from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No dat	a available.					
	Degrada	bility:							
12.3	Bioaccu	-	No dat	a available.					
12.5	Potentia		NO Gai	a available.					
12.4	,		ta available.						
12.5	<b>.5 Results of PBT and vPvB</b> No da			ta available.					
	assessm	nent:							
12.6	Other ad	verse effects:	No dat	ta available.					



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		Section 13. Dispos	al Considerat	ions				
13.1 Waste D	Disposal Method:	•						
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information								
			sport informat	.1011				
	RANSPORT (US							
DOT Prope DOT Hazar	er Shipping Name	: Not dangerous goods.						
UN/NA Nur								
	RANSPORT (Eur	opean ADR/RID):						
	hipping Name:	Not dangerous goods.						
UN Numbe	r:							
Hazard Cla	ISS:							
14.3 AIR TR	ANSPORT (ICAO/	IATA):						
ICAO/IATA	Shipping Name:	Not dangerous goods.						
Additional Tra	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.				
Information:				-				
		Section 15. Regul	atory Informa	tion				
EPA SARA (Sı	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists		-			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
29342-05-0	ciclopirox		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists					
29342-05-0	ciclopirox		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.						
		Section 16. Oth	er Information	า				
Revision Date:		02/14/2017						
Additional Info	rmation About	No data available.						
This Product:								
Company Polic	y or Disclaimer:	DISCLAIMER: This 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.						