

# SAFETY DATA SHEET Phenobarbital

Revision: 02/20/2019 Supersedes Revision: 01/18/2017

		ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83							
	Section 1.	Identification of the Substance/Mixture and of the	he Company/Undertaking						
.1	Product Code:	9001494							
	Product Name:	Phenobarbital							
	Synonyms:	5-ethyl-5-phenyl-2,4,6(1H,3H,5H)-pyrimidinetr	ione; NSC 9848; NSC 128143;						
2	Relevant identified uses o	f the substance or mixture and uses advised ag	jainst:						
	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						
4	Emergency telephone nur	nber:							
	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 Subs								
	-	Acute Toxicity: Inhalation, Category 3							
	Acute Toxicity: Oral, Category 3								
	-								
	Acute Toxicity: Skin, Ca	tegory 3							
	Acute Toxicity: Skin, Ca Skin Sensitization, Cate	gory 1							
	Acute Toxicity: Skin, Ca Skin Sensitization, Cate Carcinogenicity, Catego	gory 1							
.2	Acute Toxicity: Skin, Ca Skin Sensitization, Cate	gory 1							
2	Acute Toxicity: Skin, Ca Skin Sensitization, Cate Carcinogenicity, Catego	gory 1							
2	Acute Toxicity: Skin, Ca Skin Sensitization, Cate Carcinogenicity, Catego	gory 1							
2	Acute Toxicity: Skin, Ca Skin Sensitization, Cate Carcinogenicity, Catego Label Elements:	itegory 3 gory 1 ory 2							
2	Acute Toxicity: Skin, Ca Skin Sensitization, Cate Carcinogenicity, Catego Label Elements: GHS Signal Word:	ategory 3 gory 1 bry 2 Danger							
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2	Acute Toxicity: Skin, Ca Skin Sensitization, Cate Carcinogenicity, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact wit H317: May cause an aller	itegory 3 gory 1 bry 2 <b>Danger</b>							
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2.3

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P321: Specific treatment {see ... on this label}.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

P361+364: Take off immediately all contaminated clothing and wash it before reuse.

P362+364: Take off contaminated clothing and wash it before reuse.

### GHS Storage and Disposal Phrases:

P330: Rinse mouth.

Please refer to Section 7 for Storage and Section 13 for Disposal information.

Adverse Human Health	Material may be irritating to the mucous membranes and upper respiratory tract.
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Effects and Symptoms: May cause an allergic skin reaction.

May cause eye, skin, or respiratory system irritation.

Suspected of causing cancer.

Toxic if inhaled, swallowed, or in contact with skin.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

	•					1		
CAS # / RTECS #Hazardous Comp REACH Registra50-06-6 CQ6825000Phenobarbital 01-2120762989-29		oonents (Chemical Name) tion No.	/ Concentration	EC No./ EC Index No.	GHS Classification			
				100.0 %	200-007-0 NA	Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Skin Sens. 1: H317 Acute Tox.(I) 3: H331 Carcinogen 2: H351		
			Section 4.	First Aid Meas	ures			
4.1	Description Measures: In Case of Ir		Remove to fresh air. If no Get immediate medical at		al respiration or giv	ve oxygen by trained personnel.		
	In Case of S	e of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
	In Case of E	ye 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 Ir	gestion:			-	ive anything by mouth to an ng unless directed to do so by		
			Section 5. Fi	ire Fighting Me	asures			
5.1			Use alcohol-resistant foa Use water spray to cool fi A solid water stream may	ire-exposed containers.	-	spray.		
5.2	Media: Flammable I Hazards:	Properties an	<b>d</b> No data available.					
			No data available.					
	Flash Pt:		No data.					
	Explosive Li		LEL: No data.	UEL: No d	ata.			
	Autoignition	Pt:	No data.					
5.3	Fire Fighting	g Instructions	As in any fire, wear self-c	ontained breathing app	aratus pressure-d	emand (NIOSH approved or		

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.			
		As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,			
		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.			
		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.			
		Avoid prolonged or repeated exposure.			
7.2	-	Keep container tightly closed.			
		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				
	<b>Respiratory Equipment</b> 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.			
		Wash thoroughly after handling.			
		No data available.			
	Se	ction 9. Physical and Chemical Properties			
9.1	-	cal and Chemical Properties			
	Physical States:	[]Gas []Liquid [X]Solid			
	Appearance and Odor:	A neat 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.			
	tapor benaity (va. All = 1).				
		Multi-region format			



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	REMICAL					Oup		011. 01/10/2011
	-	Gravity (Water =	-					
	-	/ in Water:	No data.					
		Water Partition	No data.					
	Coefficie	nt:						
	Autoigni	tion Pt:	No data.					
	Decompo	osition Temperat	ure: No data.					
	Viscosity	<i>r</i> :	No data.					
9.2	Other Info	ormation						
	Percent V	/olatile:	No data.					
	Molecula	r Formula & Wei	ght: C12H12N	203 232.2				
			Section	10. Stability and	Reactivi	ty		
10.1	Reactivit	y:	No data available	Э.				
10.2	Stability:		Unstable [ ]	Stable [ X ]				
10.3	Stability	Note(s):	Stable if stored in	n accordance with informa	tion listed on	the product in	isert.	
	Polymeri	zation:	Will occur [ ]	Will not occur [ X ]				
10.4	Conditio	ns To Avoid:	No data available	Э.				
10.5	Incompa	tibility - Materials	strong oxidizing a	agents				
	To Avoid	-	5 5	0				
10.6	Hazardou	JS	carbon dioxide					
	Decompo	osition or	carbon monoixde	9				
	Byprodu		nitrogen oxides					
			Section 1	1 Tovicological	Informat	ion		
				1. Toxicological				
11.1	Informati		The toxicological effects of this product have not been thoroughly studied.					
	IOXICOIO	gical Effects:	Phenobarbital - Toxicity Data: Oral LDLO (woman): 25272 ug/kg/13D (intermittent); Oral TDLO (child): 10 mg/kg; Oral LDLO (man): 6485 ug/kg/2W (intermittent); Oral LD50 (rat): 162 mg/kg;					
				, Ofai EBEO (man): 0480 D50 (rat): 110 mg/kg; Sub		-		
			-					
	Chronic	Toxicological	137 mg/kg; Intraperitoneal LD50 (mouse): 88 mg/kg; Subcutaneous LD50 (mouse): 228 mg/kg; Phenobarbital - Investigated as an agricultural chemical, drug, mutagen, reproductive effector, and					
	Effects:	loxicological	tumorigen.					
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented I					sented here.
			See actual entry	in RTECS for complete in	formation.			
			Phenobarbital RT	TECS Number: CQ682500	00			
CAS	<b>#</b>	Hazardous Com	ponents (Chemic	cal Name)	NTP	IARC	ACGIH	OSHA
50	-06-6	Phenobarbital			n.a.	2B	n.a.	n.a.
	!		Section	12. Ecological Ir	formatic	n	ļ	
12.1	Toxicity:			o the environment.				
	· · · · · · · · · · · · · · · · · · ·			control or dilution water ma	ay cause poll	ution.		
12.2	Persister	nce and	No data available	9.				
	Degradal	bility:						
12.3			No data available.					
	Potential	:						
12.4	Mobility i	in Soil:	No data available.					
12.5	-	of PBT and vPvB						
2.5	assessm							
12.6			No data available	2				
12.6	Uther ad	verse effects:	No data available	<del>.</del>				
							M	ulti-region format



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CHIMICA	1	Section 13. Dispo	sal Considera	•	ersedes Revision: 01/18/2017	
3.1 Waste	Disposal Method:	Dispose in accordance with loc				
		Section 14. Transport Information				
14.1 LAND	TRANSPORT (US	DOT):				
DOT Pro	per Shipping Name	: Toxic solid, organic, n.o.s.	(Phenobarbital)			
DOT Hazard Class:		6.1 POISON				
UN/NA N	umber:	UN2811	Packing Gro	oup:	Ш	
		POISON 6				
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):				
ADR/RID	Shipping Name:	Toxic solid, organic, n.o.s.	(Phenobarbital)			
UN Numb		2811	Packing Gro	oup:	III	
Hazard C		6.1 - POISON				
	RANSPORT (ICAO/	-	<u>.</u>			
	A Shipping Name:	Toxic solid, organic, n.o.s.				
		2811 6.1 DOISON	Packing Gro	-	 6.1	
Hazard C		6.1 - POISON	IATA Classi		6.1	
Additional Tr Information:	ransport	Transport in accordance with I When sold in quantities of less		-	Excepted Quantity Code of	
information:		E1, E2, E4, or E5, this item me	-	-		
		Therefore packaging does not		-	-	
		Section 15. Regu				
EPA SARA (	Superfund Amendn	nents and Reauthorization Act	•			
CAS #	-	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
50-06-6	Phenobarbital		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	4	
50-06-6	Phenobarbital	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: Yes: Canc.			: No; TSCA: No; CA	
Regulatory Ir	formation	This SDS was prepared in acc	ordance with 29 CFR	1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Ot	her Informatio	n		
Revision Date:		02/20/2019				
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.				