

SAFETY DATA SHEET Carbidopa

Page: 1 of 5

	entwickt	accord	ling to Regulation (EC) No. 190	7/2006 as amended by	(EC) No 1272/200	8								
			entification of the Substan											
	Duadaat					lucitaking								
1.1	1.1 Product Code: 23783 Product Name: Carbidopa													
	Synonyms: (.alpha.S)alphahydrazinyl-3,4-dihydroxyalphamethyl-benzenepropano					zenepropanoic acid; MK-486;								
1.2 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.														
1.3	Details o	of the Supplier of the												
	Company Name: Cayman Chemical Com			any										
			1180 E. Ellsworth Rd.											
	Web s	ite address:	Ann Arbor, MI 48108 www.caymanchem.com											
	Inform		Cayman Chemical Comp	anv	+1 (734	4)971-3335								
1.4		ncy telephone numb				,,								
	-	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (800)424-9300									
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887								
			Section 2. Haz	zards Identific	cation									
2.1	Classific	cation of the Substar	nce or Mixture:											
2.2	Label El	ements:												
	GHS S	ignal Word:	None											
 GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. GHS Precaution Phrases: No phrases apply. 														
										Response Phrases: rases apply.				
									-		l Phrases:			
								GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.						
2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.														
	Effects	and Symptoms: N	lay be harmful by inhalation	, ingestion, or skin al	bsorption.									
			lay cause eye, skin, or resp											
	To the best of our knowledge, the toxicological properties have not been thoroughly investigated.													
		Sectio	n 3. Composition	/Information of	on Ingredier	nts								
		Hazardous Compor REACH Registration	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification								
	60-95-9 298000	Carbidopa		100.0 %	249-271-9 NA	No data available.								

Multi-region format



SAFETY DATA SHEET Carbidopa

Revision: 12/03/2017

 4.1 Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxyg Get immediate medical attention. In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minute clothing. Get medical attention if symptoms occur. Wash clothing before re- In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minute and tested by medical personnel. In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give any unconscious person. Get medical attention. Do NOT induce vomiting unle medical personnel. 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties andNo data available. Hazards: No data available. Flash Pt: No data. Explosive Limits: LEL: No data. 	en by trained personnel.				
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Hazards: No data available. Flash Pt: No data.					
Flash Pt: No data.					
Explosive Limits: LEL: No data. UEL: No data.					
•					
Autoignition Pt: No data.					
5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand 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 As conditions warrant, wear a NIOSH approved self-contained breathing					
Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and h	eavy 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 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.					
Section 8. Exposure Controls/Personal Protection					
8.1 Exposure Parameters:					

Multi-region format



SAFETY DATA SHEET Carbidopa

8.2.1 E (3.2.2 I F ((V C C	(Ventilation etc.): 4 Personal protection equipm Eye Protection: 5 Protective Gloves: 6 Other Protective Clothing: L Respiratory Equipment 1 (Specify Type): Work/Hygienic/Maintenan 1 ce Practices: 7 V N	Safety glasses Compatible chemical-resistant gloves Lab coat NIOSH approved respirator, as conditions warrant. Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
3.2.2 F ((\).1 r F	(Ventilation etc.): 4 Personal protection equipm Eye Protection: 5 Protective Gloves: 6 Other Protective Clothing: L Respiratory Equipment 1 (Specify Type): Work/Hygienic/Maintenan 1 ce Practices: 7 V N	evels below recommended exposure limits. nent: Safety glasses Compatible chemical-resistant gloves Lab coat NIOSH approved respirator, as conditions warrant. Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
E F () () () () () () () () () (Eye Protection: S Protective Gloves: C Other Protective Clothing:L Respiratory Equipment N (Specify Type): Work/Hygienic/Maintenan D ce Practices: F V N	Safety glasses Compatible chemical-resistant gloves Lab coat NIOSH approved respirator, as conditions warrant. Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
F ((\	Protective Gloves: C Other Protective Clothing:L Respiratory Equipment N (Specify Type): Work/Hygienic/Maintenan D ce Practices: F V N	Compatible chemical-resistant gloves Lab coat NIOSH approved respirator, as conditions warrant. Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
(F (\ c	Other Protective Clothing: L Respiratory Equipment N (Specify Type): Work/Hygienic/Maintenan D ce Practices: F V N	Lab coat NIOSH approved respirator, as conditions warrant. Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
F (\ c .1 Ir F	Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan E ce Practices: F V N	NOSH approved respirator, as conditions warrant. Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
(\ c 9.1 Ir F	(Specify Type): Work/Hygienic/Maintenan E ce Practices: F V N	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
(\ c 9.1 Ir F	(Specify Type): Work/Hygienic/Maintenan E ce Practices: F V N	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available.				
). .1 Ir F	Work/Hygienic/Maintenan E ce Practices: F V N See	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Nash thoroughly after handling. No data available.				
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F	See	No data available.				
F	See					
F		ation 0 Devaluated Chamical Properties				
F						
F	afarmation on Deals Dhusis	ction 9. Physical and Chemical Properties				
	-	cal and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A solid				
k	pH:	No data.				
ľ	Melting Point:	No data.				
E	Boiling Point:	No data.				
F	Flash Pt:	No data.				
F	Evaporation Rate:	No data.				
F	Flammability (solid, gas):	No data available.				
F	Explosive Limits:	LEL: No data. UEL: No data.				
١	Vapor Pressure (vs. Air or r	mm No data.				
ŀ	Hg):					
١	Vapor Density (vs. Air = 1):	No data.				
ę	Specific Gravity (Water = 1)	: No data.				
ę	Solubility in Water:	No data.				
ę	Solubility Notes:	Soluble in: MeOH; DMSO;				
(Octanol/Water Partition	No data.				
(Coefficient:					
1	Autoignition Pt:	No data.				
[Decomposition Temperatur	No data.				
١	Viscosity:	No data.				
9.2 C	Other Information					
F	Percent Volatile:	No data.				
ſ	Molecular Formula & Weigh	nt: C10H14N2O4 226.2				

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SAFETY DATA SHEET Carbidopa

Multi-region format

Revision: 12/03/2017

			Section 10. Stability a	nd Reactiv	vity			
10.1	Reactivity: No data available.							
10.2	-							
10.3	Stability	Note(s):	Stable if stored in accordance with info	rmation listed o	on the product	insert.		
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5 Incompatibility - Materials strong oxidizing agents								
	To Avoid	1:						
10.6	Hazardous Decomposition or Byproducts:		carbon dioxide carbon monoxide nitrogen oxides					
			Section 11. Toxicologic	al Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product	have not beer	thoroughly st	udied.		
	Toxicolo	gical Effects:	Carbidopa - Toxicity Data: Intraperitone	eal LD50 (rat):	2804 mg/kg; Ir	ntraperitoneal l	D50 (mouse)	
			468 mg/kg;					
		Toxicological	Carbidopa - Investigated as a drug, mu	•				
	Effects:		Only select Registry of Toxic Effects of		stances (RIE	S) data is pre	sented here.	
			See actual entry in RTECS for complete information. Carbidopa RTECS Number: MW5298000					
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	60-95-9	Carbidopa		n.a.	n.a.	n.a.	n.a.	
2000						11.0.		
			Section 12. Ecologica	Informat	ion			
12.1	Toxicity:		Avoid release into the environment.					
Runoff from fire control or dilution water may cause pollution.								
12.2	2.2 Persistence and No data available.							
	Degradability:							
	2.3 Bioaccumulative No data available.							
12.3								
12.3	Potentia							
		l:	No data available.					
12.4	Potentia Mobility	l: in Soil:						
12.4	Potentia Mobility	l: in Soil: of PBT and vPvB	No data available.					
12.4 12.5	Potentia Mobility Results assessm	l: in Soil: of PBT and vPvB	No data available.					
12.3 12.4 12.5 12.6	Potentia Mobility Results assessm	l: in Soil: of PBT and vPvB nent:	No data available. No data available.	onsiderati	ions			

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SAFETY DATA SHEET Carbidopa

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Revision: 12/03/2017

Section 14. Transport Information								
14.1 LAND TRANSPORT (US DOT):								
DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class:								
14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shinning Name: Not dependence goods								
ADR/RID Shipping Name: Not dangerous goods. UN Number:								
UN Number: Hazard Class:								
Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA):								
	Shipping Name:	Not dangerous goods.						
Additional Trar		Transport in accordance with lo	cal state and federa	al regulations				
Information:	isport	Transport in accordance with to		a regulations.				
		Section 15. Regul	atory Informa	ition				
	nerfund Amende	nents and Reauthorization Act of	-					
CAS #	- -	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
28860-95-9	Carbidopa		No	No	No			
	· ·		-					
CAS #		ponents (Chemical Name)	Other US EPA or					
28860-95-9	Carbidopa		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	lation (EC)			
Statement:		No.1272/2008.						
		Section 16. Oth	ner Informatio	n				
Revision Date:		12/03/2017						
Additional Infor	mation 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 warra express or implied, with respect to such information, and we assume no liability resulting from use. Users should make their own investigations to determine the suitability of the information their particular purposes.								