

Revision: 01/19/2020

	Section 1 Ic	lentification of the Substance/Mixture and of th	e Company/Undenakind
			e company/ondertaking
.1	Product Code: Product Name:	29506 ABT 724 (bydrochlorido)	
	Synonyms:	ABT-724 (hydrochloride) 2-[[4-(2-pyridinyl)-1-piperazinyl]methyl]-1H-ben	zimidazole tribydrochloride:
~			-
2		the substance or mixture and uses advised aga	
	Relevant identified uses:	For research use only, not for human or vetering	ary use.
.3	Details of the Supplier of th	e Safety Data Sheet: Cayman Chemical Company	
	Company Name:		
		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 num	ber:	
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
	0,	CHEMTREC Outside USA and Canada:	+1 (703)527-3887
		Section 2. Hazards Identifica	ation
_	Classification of the Substa		
.1			
	Skin Corrosion/Irritation,	Category 2	
	Serious Eye Damage/Eye	Irritation, Category 2	
		Irritation, Category 2 xicity (single exposure), Category 3	
.2			
.2	Specific Target Organ To		
2	Specific Target Organ To		
.2	Specific Target Organ To Label Elements:	xicity (single exposure), Category 3	
.2	Specific Target Organ To Label Elements: GHS Signal Word:	xicity (single exposure), Category 3 Warning	
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye	xicity (single exposure), Category 3 Warning n. irritation.	
.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	xicity (single exposure), Category 3 Warning n. irritation.	
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirato GHS Precautionary Phrase	xicity (single exposure), Category 3 Warning n. irritation. ry irritation. ses:	
.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirato GHS Precautionary Phras P261: Avoid breathing {dustical series of the series of t	xicity (single exposure), Category 3 Warning n. irritation. ry irritation. ses: et/fume/gas/mist/vapors/spray}.	
.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirato GHS Precautionary Phrase P261: Avoid breathing {dus P264: Wash {hands} thorow	xicity (single exposure), Category 3 Warning n. irritation. ry irritation. ses: st/fume/gas/mist/vapors/spray}. ughly after handling.	
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.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirato GHS Precautionary Phrase P261: Avoid breathing {dus P264: Wash {hands} thorou P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W P304+340: IF INHALED: R	xicity (single exposure), Category 3 Warning n. irritation. ry irritation. ses: st/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection ash with plenty of soap and water. emove victim to fresh air and keep at rest in a posi	tion comfortable for breathing.
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	UFI:							
2.3 Adverse Human Health Effects and Symptoms:		e Human Health	Causes serious eye irritation. Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.					
		and Symptoms:						
			May cause respiratory system		<i></i>			
			To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
		Sec	tion 3. Composition	/Information	on Ingredie	nts		
CAS RTEC	S # / Hazardous Comj ECS # REACH Registra		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
58787 NA	70-77-7	ABT-724 (hydrochlo	ride)	100.0 %	687-029-8 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335		
		Į	Section 4. Fir	st Aid Meas	ures			
4.1	Descrip	otion of First Aid						
1	Measu							
	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	e 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	e of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		vater for at least 1	5 minutes. Have eyes examined		
	In Case	e of Ingestion:	Wash out mouth with water pu unconscious person. Get med medical personnel.		-	ive anything by mouth to an ng unless directed to do so by		
			Section 5. Fire	Fighting Me	asures			
ـــــــــــــــــــــــــــــــــــــ	Suitabl	e Extinguishing	Use alcohol-resistant foam, c			spray.		
	Media:		Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing A solid water stream may be inefficient. Media:							
5.2		•	d No data available.					
			No data available.					
	Flash F	Pt:	No data.					
	Explosive Limits:		LEL: No data. UEL: No data.					
	Autoig	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 protective	e gear to prevent co	ontact with skin an	d eyes.		
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	ç	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	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.					
	-	Transfer to a chemical waste container for disposal in accordance with local regulations.				
	Up:					
		Section 7. Handling and Storage				
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.				
	•	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		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 equipment:					
	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.				
		Wash thoroughly after handling.				
		No data available.				
	Se	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physi	cal and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A 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): Vener Density (ve. Air = 1)	No data.				
	Vapor Density (vs. Air = 1)					
		Multi-region format				



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	Specific Gravity (Wat	er = 1):	No data.					
	Solubility in Water:		No data.					
	Solubility Notes:		Soluble in; water;					
	Octanol/Water Partiti	on	No data.					
	Coefficient:							
	Autoignition Pt:		No data.					
	Decomposition Temp	erature:	No data.					
	Viscosity:		No data.					
9.2	Other Information							
0.2	Percent Volatile:		No data.					
	Molecular Formula &	Weight:		402.8				
		-						
			Section 10. Stabili	ity and	Reacti	vity		
10.1	Reactivity:	No da	ata available.					
10.2	Stability:		able [] Stable [X]					
10.3	Stability Note(s):	Stable	e if stored in accordance w	ith informa	tion listed	on the product	insert.	
	Polymerization:	Will o	occur [] Will not occur	[X]				
10.4	Conditions To Avoid	No da	ata available.					
10.5	Incompatibility - Mate	erials strong	g oxidizing agents					
	To Avoid:							
10.6	Hazardous	carbo	on dioxide					
	Decomposition or	carbo	on monoxide					
	Byproducts:	hydro	ogen chloride gas					
		nitrog	jen oxides					
		Se	ection 11. Toxicol	ogical	Informa	ation		
11.1	Information on	The to	oxicological effects of this p	product hav	ve not bee	n thoroughly st	udied.	
	Toxicological Effects	:						
CAS	# Hazardous	Componen	ts (Chemical Name)		NTP	IARC	ACGIH	OSHA
5878	70-77-7 ABT-724 (hy	-	· · ·		n.a.	n.a.	n.a.	n.a.
				<u> </u>			11.0.	
			Section 12. Ecolo	gical Ir	nformat	ion		
12.1	Toxicity:	Avoid	I release into the environme	ent.				
		Runo	ff from fire control or dilutio	on water ma	ay cause p	ollution.		
12.2	Persistence and	No da	ata available.					
	Degradability:							
12.3	Bioaccumulative	No da	ata available.					
	Potential:							
12.4	Mobility in Soil:	No da	ata available.					
12.5	Results of PBT and v	PvB No da	ata available.					
	assessment:							
12.6	Other adverse effects	No da	ata available.					

Multi-region format



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		Section 13. Dispos	al Considerat	ions				
13.1 Waste D	isposal Method:	Dispose in accordance with loca	al, state, and federal r	egulations.				
	Section 14. Transport Information							
14.1 LAND T	RANSPORT (US	DOT):						
DOT Prope	r Shipping Name	Not dangerous goods.						
DOT Hazar								
UN/NA Nun								
	-	opean ADR/RID):						
UN Numbe	hipping Name: r·	Not dangerous goods.						
Hazard Cla								
14.3 AIR TR	ANSPORT (ICAO/	IATA):						
ΙCAO/ΙΑΤΑ	Shipping Name:	Not dangerous goods.						
UN Numbe	r:		Packing Grou	ıp:				
Hazard Cla	ss:							
Additional Tra	nsport	Transport in accordance with lo	cal, state, and federa	regulations.				
Information:								
		Section 15. Regul	atory Information	tion				
EPA SARA (Sı	perfund Amendn	nents and Reauthorization Act	of 1986) Lists					
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
587870-77-7	ABT-724 (hydrod	chloride)	No	No	No			
CAS #		nponents (Chemical Name)	Other US EPA or S					
587870-77-7	ABT-724 (hydroc	chloride)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
				This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Regulatory Info	 ormation		rdance with 29 CFR 1	910.1200 and Regul	ation (EC)			
Regulatory Info Statement:	prmation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR 1	1910.1200 and Regul	ation (EC)			
	prmation				ation (EC)			
	prmation	No.1272/2008.			ation (EC)			
Statement:		No.1272/2008. Section 16. Oth			ation (EC)			
Statement: Revision Date:		No.1272/2008. Section 16. Oth 01/19/2020			ation (EC)			
Statement: Revision Date: Additional Info This Product:		No.1272/2008. Section 16. Oth 01/19/2020 No data available. DISCLAIMER: This information	ner Information	ן Inate and represents	the best information			
Statement: Revision Date: Additional Info This Product:	rmation About	No.1272/2008. Section 16. Oth 01/19/2020 No data available. DISCLAIMER: This information currently available to us. However	ner Information is believed to be accu rer, we make no warra	ר וrate and represents anty of merchantabilit	the best information y or any other warranty,			
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