

	~	SAFETY DATA SHE		Page: 1		
	man	4-methyl-1-Pentanol		Revision: 11/21/201		
7	CHEMICAL					
		cording to Regulation (EC) No. 1907/2006 as amended by (I				
	Section 1.	Identification of the Substance/Mixture and of th	e Company/Underta	aking		
	Product Code:	18446				
	Product Name:	4-methyl-1-Pentanol				
	Synonyms:	4-methyl-1-pentanol; Isohexanol; Isohexyl alcol	nol; NSC 91492;			
	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses	For research use only, not for human or veterin	ary use.			
	Details of the Supplier of	the Safety Data Sheet:				
	0					
	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		
	Emergency telephone nu					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424	-9300		
		CHEMTREC Outside USA and Canada:	+1 (703)527			
		Section 2. Hazards Identifica				
	Classification of the Subs	topoo or Mixturo				
	Classification of the Subs					
	Flammable Liquids, Cat					
	Flammable Liquids, Cat					
	Flammable Liquids, Cat					
	Flammable Liquids, Cat					
	Flammable Liquids, Cat Label Elements:	tegory 3				
	Flammable Liquids, Cat					
	Flammable Liquids, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases:	tegory 3 Warning				
	Flammable Liquids, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H226: Flammable liquid a	warning and vapor.				
	Flammable Liquids, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H226: Flammable liquid a GHS Precaution Phrase	Warning and vapor.				
	Flammable Liquids, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H226: Flammable liquid a GHS Precaution Phrase P210: Keep away from {h	Warning and vapor. es: neat/sparks/open flames/hot surfaces} No smoking.				
	Flammable Liquids, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H226: Flammable liquid a GHS Precaution Phrase P210: Keep away from {H P280: Wear {protective g	Warning and vapor. es: heat/sparks/open flames/hot surfaces} No smoking. loves/protective clothing/eye protection/face protection				
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Multi-region format



Multi-region format

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Uns Med 5.2 Flar Haz Flas Exp Auto 5.3 Fire	nsuitable Extinguishing		-	i.							
Med 5.2 Flar Haz Flas Exp Aute 5.3 Fire		A solid water stream may be	e inefficient.		Media: Use water spray to cool fire-exposed containers.						
5.2 Flar Haz Flas Exp Auto 5.3 Fire	edia:				Unsuitable Extinguishing A solid water stream may be inefficient.						
Haz Flas Exp Aute 5.3 Fire											
Flas Exp Auto 5.3 Fire	Flammable Properties and No data available.										
Exp Auto 5.3 Fire	azards:										
Exp Auto 5.3 Fire		No data available.									
Auto	ash Pt:	No data.									
5.3 Fire	xplosive Limits:	LEL: No data.	UEL: No o	lata.							
	Autoignition Pt: No data.										
	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.										
1 Proj					d eyes.						
		Section 6. Accider	ntal Release	Measures							
5.1 FIU	rotective Precautions,	Avoid raising and breathing	dust, and provide a	dequate ventilatior	۱.						
Prot	rotective Equipment and	d As conditions warrant, wear									
Eme	mergency Procedures:	and appropriate personal pr	rotection (rubber bo	ots, safety goggles	, and heavy rubber gloves).						
6.2 Env	nvironmental	Take steps to avoid release	into the environme	nt, if safe to do so.							
Pree	Precautions:										
	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:	Up:										



	Section 7. Handling and Storage							
7.1	Precaut	tions To Be Taken	ons To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Hand	lling:	Avoid prolonged or	repeated exposure.				
7.2	Precaut	tions To Be Taken	Keep container tight	tly closed.				
	in Stori	ng:	Store in accordance	e with information listed	on the product insert.			
		Sect	tion 8. Expos	ure Controls/Pe	ersonal Protection			
8.1	Exposu	re Parameters:						
CAS	#	Partial Chemical Name		Britain EH40	France VL	Europe		
626	6-89-1	4-Methylpentyl ethylphosphonoflu	-Methylpentyl thylphosphonofluoridate		No data.	No data.		
CAS	#			OSHA TWA	ACGIH TWA	Other Limits		
626	6-89-1			No data.	No data.	No data.		
8.2	Exposu	re Controls:		-	<u> </u>	ł		
8.2.1	-	ering Controls	Use process enclos	ures, local exhaust ver	ntilation, or other engineering co	ontrols to control airborr		
			levels below recom	s below recommended exposure limits.				
8.2.2	Person	al protection equip	pment:					
	Eye Pro	otection:	Safety glasses					
	Protect	ive Gloves:	Compatible chemica	al-resistant gloves				
	Other Protective Clothing:Lab coat							
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.							
	Respira	atory Equipment	NIOSH approved re	spirator, as conditions	warrant.			
	-	atory Equipment y Type):	NIOSH approved re	spirator, as conditions	warrant.			
	(Specify	y Type):	NIOSH approved re Do not take internal		warrant.			
	(Specify	y Type): ygienic/Maintenan	Do not take internal	ly.	warrant. nould be equipped with an eyev	vash and a safety show		
	(Specify Work/H	y Type): ygienic/Maintenan	Do not take internal	ly. utilizing this material sh		vash and a safety show		
	(Specify Work/H	y Type): ygienic/Maintenan	Do not take internal Facilities storing or	ly. utilizing this material sh		vash and a safety show		
	(Specify Work/H	y Type): ygienic/Maintenan tices:	Do not take internal Facilities storing or Wash thoroughly af No data available.	ly. utilizing this material sh ter handling.		vash and a safety show		
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9.1	(Specify Work/H ce Prac	y Type): ygienic/Maintenan tices: So	Do not take internal Facilities storing or Wash thoroughly aff No data available. ection 9. Phy sical and Chemical	ly. utilizing this material sh ter handling. rsical and Chen	nould be equipped with an eyev	vash and a safety show		
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9.1	(Specify Work/H ce Prace Informate Physica Appear Melting Boiling Flash P	y Type): ygienic/Maintenan tices: Setion on Basic Phys al States: ance and Odor: Point: Point: Point:	Do not take internal Facilities storing or Wash thoroughly aff No data available. ection 9. Phy sical and Chemical I [] Gas a neat oil No data. No data. No data.	ly. utilizing this material sh ter handling. rsical and Chen Properties	nould be equipped with an eyev	vash and a safety show		
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cent Volatile: ecular Formula & We activity: bility: bility Note(s): ymerization: nditions To Avoid: compatibility - Material	ight: C6H14O 102.2 Section 10. Stabilit No data available. Unstable [] Stable [X] Stable if stored in accordance wit Will occur [] Will not occur	th information listed of								
ecular Formula & We activity: bility: bility Note(s): ymerization: aditions To Avoid: ompatibility - Material	ight: C6H14O 102.2 Section 10. Stabilit No data available. Unstable [] Stable [X] Stable if stored in accordance wit Will occur [] Will not occur	th information listed of								
activity: bility: bility Note(s): ymerization: aditions To Avoid: compatibility - Material	Section 10. Stabilit No data available. Unstable [] Stable [X] Stable if stored in accordance wit Will occur [] Will not occur	th information listed of								
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bility: bility Note(s): ymerization: nditions To Avoid: ompatibility - Material	Unstable [] Stable [X] Stable if stored in accordance wit Will occur [] Will not occur									
bility Note(s): ymerization: nditions To Avoid: ompatibility - Material	Stable if stored in accordance with Will occur [] Will not occur									
ymerization: nditions To Avoid: ompatibility - Material	Will occur [] Will not occur		en de la menale de la d							
nditions To Avoid: compatibility - Material			on the product	Stable if stored in accordance with information listed on the product insert.						
ompatibility - Material										
	IO.4 Conditions To Avoid: heat, flames and sparks IO.5 Incompatibility - Materials acids									
	Incompatibility - Materials acids									
Avoid:	acid chlorides									
	acid anhydrides									
	oxidizing agents									
ardous	No data available.									
omposition or products:										
	Section 11. Toxicol	<u> </u>								
ormation on	The toxicological effects of this product have not been thoroughly studied.									
icological Effects:	4-methyl-1-Pentanol - Toxicity Data: Oral LD50 (rat): 1410 mg/kg; Intraperitoneal LDLO (rat): 230									
	mg/kg; Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.									
onic Toxicological	4-methyl-1-Pentanol RTECS Nur		stances (RIEC	CS) data is pre	sented here.					
	-									
	nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA					
1 4-Methylpentyl e	thylphosphonofluoridate	n.a.	n.a.	n.a.	n.a.					
	Section 12. Ecolo	gical Informat	ion							
icity:	Avoid release into the environment.									
	Runoff from fire control or dilutior	n water may cause po	ollution.							
sistence and	No data available.									
radability:										
2.3 Bioaccumulative No data available.										
pility in Soil:										
	No data available.									
000m0n1-										
essment:										
ential: pility in sults o	n Soil: f PBT and vPvB	n Soil: No data available. f PBT and vPvB No data available. ent:	n Soil: No data available. f PBT and vPvB No data available. ent:	n Soil: No data available. f PBT and vPvB No data available. ent:	n Soil:No data available.f PBT and vPvBNo data available.					



		Section 13. Dispo	sal Considera	ations		
3.1 Waste	Disposal Method:	Dispose in accordance with loc	al, state, and federa	regulations.		
		Section 14. Trar	sport Informa	ation		
14.1 LAND	TRANSPORT (US	DOT):				
DOT Prop	er Shipping Name	: Alcohols, n.o.s. (4-Methylp	entan-1-ol)			
DOT Hazard Class:		3 FLAMMAE	BLE LIQUID			
UN/NA Number:		UN1987 Packing Group: III			III	
14.1 LAND	TRANSPORT (Fur					
	TRANSPORT (Eur Shipping Name:		ontan 1 al)			
		Alcohols, n.o.s. (4-Methylpentan-1-ol) 1987 Packing Group:			111	
Hazard Cl		3 - FLAMMABLE LIQUID	Facking Gro	ν α μ.		
	ass. RANSPORT (ICAO)					
	A Shipping Name:	•	entan-1-ol)			
		1987	Packing Gro	oup:	111	
Hazard CI		3 - FLAMMABLE LIQUID	IATA Classi	-	3	
Additional Tra		Transport in accordance with le			-	
Information:		When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.				
		Section 15. Regu	latory Informa	ation		
EPA SARA (S	Superfund Amendr	nents and Reauthorization Act	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
626-89-1	4-Methylpentyl e	thylphosphonofluoridate	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	(Chemical Name) Other US EPA or State Lists			
626-89-1	4-Methylpentyl e	thylphosphonofluoridate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf	formation	This SDS was prepared in acc	ordance with 29 CFF	1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Ot	her Informatio	on		
Revision Date		11/21/2015				
Additional Infe	ormation About	No data available.				
his 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				
Additional Information About This Product: Company Policy or Disclaimer:		express or implied, with respectuse. Users should make their their particular purposes.				
		DISCLAIMER: This information currently available to us. Howe express or implied, with respec use. Users should make their	ver, we make no war t to such information	ranty of merchanta , and we assume r	ability or any other wa no liability resulting fro	