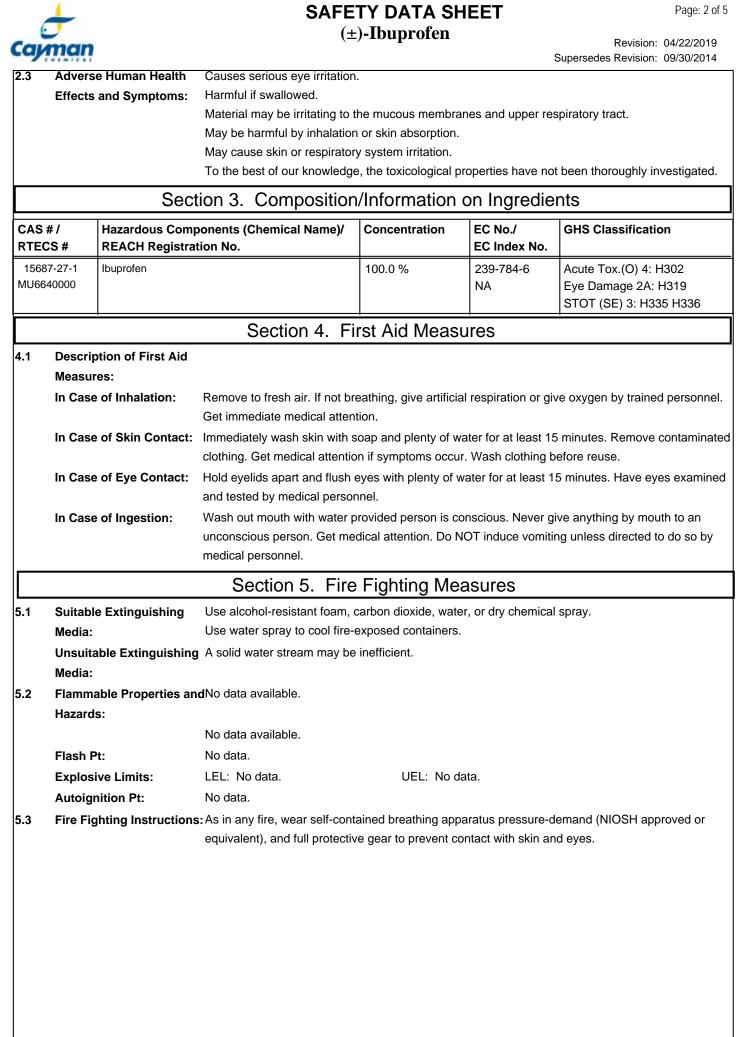


SAFETY DATA SHEET (±)-Ibuprofen

Revision: 04/22/2019 Supersedes Revision: 09/30/2014

	C N I M I C A I	g to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83/	Supersedes Revision: 09/30/2014				
		dentification of the Substance/Mixture and of th	есопранующенакіну				
.1	Product Code:	70280					
	Product Name:	(±)-Ibuprofen					
	Synonyms:	(±)alphamethyl-4-(2-methylpropyl)-benzene	acetic acid; DL-Ibuprofen; NSC 256857; U-187				
.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:						
		1180 E. Ellsworth Rd.					
		Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com	.4 (704)074 0005				
	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone num						
	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				
.1	Classification of the Subst	ance or Mixture:					
	\mathbf{V}						
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H302: Harmful if swallowed.						
	H319: Causes serious eye irritation.						
	H335: May cause respiratory irritation.						
	GHS Precaution Phrases:						
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.						
	P264: Wash {hands} thoroughly after handling.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.						
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.						
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.						
	to do. Continue rinsing. P330: Rinse mouth.						
	P337+313: If eye irritation persists, get medical advice/attention.						
	GHS Storage and Disposal Phrases:						
	Please reter to Section 7 f	or Storage and Section 13 for Disposal information.					

Multi-region format



Multi-region format



SAFETY DATA SHEET

(±)-Ibuprofen

R	Revision:	04/22/2019
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	S	ection 6. Accidental Release Measures			
6.1	Protective Precautions, A	Avoid raising and breathing dust, and provide adequate ventilation.			
	Protective Equipment and A	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,			
	Emergency Procedures: a	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).			
6.2	Environmental T	ake 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 A	void breathing dust/fume/gas/mist/vapours/spray.			
	in Handling: A	void prolonged or repeated exposure.			
7.2	Precautions To Be Taken K	eep container tightly closed.			
	in Storing: Store in accordance with information listed on the product insert.				
	Sectio	on 8. Exposure Controls/Personal Protection			
8.1	Exposure Parameters:				
8.2	Exposure Controls:				
8.2.1	-	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne			
		evels below recommended exposure limits.			
8.2.2	Personal protection equipm	ient:			
	-	ompatible chemical-resistant gloves			
	Other Protective Clothing:Lab coat				
	-	-			
	(Specify Type):				
	Work/Hygienic/Maintenan Do not take internally.				
	ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show				
	Wash thoroughly after handling.				
	Ν	lo data available.			
	Sec	ction 9. Physical and Chemical Properties			
9.1	Information on Basic Physic	al 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 n	nm No data.			
	Hg):				
	Vapor Density (vs. Air = 1): No data.				
		Multi-region format			

Cayman

SAFETY DATA SHEET (±)-Ibuprofen

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	HEMICAL				30	iperseues rievis	1011. 09/30/2014	
	Specific	Gravity (Water =	1): No data.					
	Solubility	y in Water:	No data.					
	Solubility	y Notes:	~2 mg/ml in PBS (pH 7.2); ~60 mg	g/ml in EtOH;	~50 mg/ml in	DMSO; ~45 n	ng/ml in DMF;	
	Octanol/	Water Partition	No data.					
	Coefficie	ent:						
	Autoigni	tion Pt:	No data.					
	-	osition Temperat	ure: No data.					
	Viscosity	-	No data.					
9.2	Other Info							
5.2	Percent		No data.					
		r Formula & Wei						
	WOIECula		-	Depeti				
	Descrit 14		Section 10. Stability and	Reactiv	/ity			
10.1	Reactivit	-	No data available.					
10.2	Stability:		Unstable [] Stable [X]	<i>с. в. с.</i> т		. ,		
10.3	Stability		Stable if stored in accordance with inform	ation listed of	n the product	insert.		
	Polymeri		Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompa	tibility - Materials	s strong oxidizing agents					
	To Avoid	l:						
10.6	Hazardo	us	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	cts:						
			Section 11. Toxicological	Informa	tion			
11.1	Informat	ion on	· · · ·	xicological effects of this product have not been thoroughly studied.				
			•	Ibuprofen - Toxicity Data: Oral TDLO (woman): 8 mg/kg; Oral LDLO (child): 469 mg/kg; Oral				
	0		LDLO (man): 171 mg/kg; Oral LD50 (rat): 636 mg/kg; Intraperitoneal LD50 (rat): 626 mg/kg;					
			Subcutaneous LD50 (rat): 740 mg/kg; Oral LD50 (mai): 050 mg/kg; Intrapentoneal LD50 (rat): 020 mg/kg; Subcutaneous LD50 (rat): 740 mg/kg; Oral LD50 (mouse): 740 mg/kg; Intraperitoneal LD50 (rat):					
			320 mg/kg; Subcutaneous LD50 (rat): 395			3,p		
	Chronic	Toxicological		puprofen - Investigated as a drug, mutagen, primary irritant, and reproductive effector.				
	Effects:	rexidencegical	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is present					
	Encots.			actual entry in RTECS for complete information.				
			(±)-Ibuprofen RTECS Number: MU664000					
CAS	¥	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	37-27-1	Ibuprofen		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecological I		ļ			
12.1	Toxicity:		Avoid release into the environment.					
12.1	TOXICITY.		Runoff from fire control or dilution water m		Ilution			
10.0	Develoter		No data available.	lay cause po				
12.2	Persister		No data avallable.					
	Degrada	-						
12.3	Bioaccu		No data available.					
	Potential							
12.4	Mobility	in Soil:	No data available.					
12.5	Results of	of PBT and vPvB	No data available.					
	assessm	ent:						
12.6	Other ad	verse effects:	No data available.					
						Ν	Iulti-region format	



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CHIMICAL				Supe	ersedes Revision: 09/30/201	
		Section 13. Dispo	sal Considera	ations		
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.						
		Section 14. Trar	nsport Inform	ation		
14.1 LAND T	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	: Not dangerous goods.				
DOT Hazar	d Class:					
UN/NA Nur	nber:					
	-	opean ADR/RID):				
ADR/RID S UN Numbe	hipping Name:	Not dangerous goods.				
Hazard Cla						
	ANSPORT (ICAO/	(IATA):				
	Shipping Name:	-				
Additional Tra	nsport	Transport in accordance with I	ocal, state, and fede	ral regulations.		
Information:						
		Section 15. Regu	latory Inform	ation		
EPA SARA (Su	perfund Amendr	nents and Reauthorization Act	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
15687-27-1	Ibuprofen		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists	+	
15687-27-1	Ibuprofen		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFI	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Informati	on		
Revision Date:		04/22/2019				
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 fo				
		their particular purposes.				