

		ling to Degulation (EC) No. 1007/0000 among the line (E	C) No. 1272/2009					
		ling to Regulation (EC) No. 1907/2006 as amended by (E						
	Section 1. Ide	entification of the Substance/Mixture and of the	e Company/Undertaking					
.1	Product Code:	10024						
	Product Name:	Acetaminophen						
	Synonyms: N-(4-hydroxyphenyl)-acetamide; Paracetamol; 4'-Hydroxyacetanilide; NSC 109028; N							
		APAP; 4-Acetamidophenol;						
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or veterina	ary 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 numb							
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identifica	tion					
2.2	Skin Sensitization, Catego Specific Target Organ Tox Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic) Label Elements:	icity (single exposure), Category 3 Category 2						
	GHS Signal Word:	Warning						

Revision: 06/14/2017 Supersedes Revision: 09/14/2015

	CHIMICAL								
	GHS	Precaution Phrase	es:						
	P261:	P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.							
	P264:	P264: Wash {hands} thoroughly after handling.							
	P272: Contaminated work clothing should not be allowed out of the workplace.								
	P273	P273: Avoid release to the environment.							
	P280:	Wear {protective g	gloves/protective clothing/eye protection/face protection}.						
	GHS	Response Phrases							
	P301+312: IF SWALLOWED: P312: Call a POISON CE			NTER or doctor/physician if you feel unwell.					
	P302-	+352: IF ON SKIN: '	Wash with plenty of soap and	sh with plenty of soap and water.					
	P304-	+340: IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.						
	P305-	+351+338: IF IN EY	ES: Rinse cautiously with wate	er for several minute	s. Remove contac	ct lenses, if present and easy			
	to do.	Continue rinsing.							
	P321:	Specific treatment	{see on this label}.						
	P330:	Rinse mouth.							
	P332-	P332+313: If skin irritation occurs, get medical advice/attention.							
	P333-	+313: If skin irritatio	n or rash occurs, seek medical	advice/attention.					
	P337-	+313: If eye irritation	n persists, get medical advice/a	attention.					
	P362-	+364: Take off conta	aminated clothing and wash it	before reuse.					
	P391:	Collect spillage.							
	GHS	Storage and Dispo	osal Phrases:						
	Pleas	e refer to Section 7	for Storage and Section 13 for	Disposal informatio	n.				
2.3	Advers	e Human Health	Causes serious eye irritation.						
	Effects	and Symptoms:	Causes skin irritation.						
			Causes damage to organs through prolonged or repeated exposure.						
			Harmful if swallowed.						
			Material may be irritating to the mucous membranes and upper respiratory tract.						
			May be harmful by inhalation, ingestion, or skin absorption.						
			May cause an allergic skin reaction.						
			May cause respiratory system irritation.						
			Toxic to aquatic life with long lasting effects.						
To the best of our knowledge, the toxicological properties have not be				been thoroughly investigated.					
						nto			
	Section 3. Composition/Information on Ingredients								
CAS	#/	Hazardous Com	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTEC	CS #	REACH Registra	tion No.		EC Index No.				
	8-90-2	4-Acetamidophenol		100.0 %	203-157-5	Acute Tox.(O) 4: H302			
AE420	00000				NA	Skin Corr. 2: H315			
						Skin Sens. 1B: H317			
						Eye Damage 2: H319			
						STOT (SE) 3: H335 H336			

Aquatic (A) 2: H401 Aquatic (C) 2: H411



		Section 4. First	Aid Measures			
	.1 Description of First Aid Measures:					
	In Case of Inhalation:	Remove to fresh air. If not breath Get immediate medical attention.	ing, give artificial respiration or give oxygen by tra	ined personnel.		
	In Case of Skin Contact:		and plenty of water for at least 15 minutes. Remo symptoms occur. Wash clothing before reuse.	ve contaminated		
	In Case of Eye Contact:	with plenty of water for at least 15 minutes. Have	eyes examined			
	In Case of Ingestion:		ded person is conscious. Never give anything by r l attention. Do NOT induce vomiting unless directe			
		Section 5. Fire Fi	ghting Measures			
	Suitable Extinguishing Media: Unsuitable Extinguishing	Use alcohol-resistant foam, carbo Use water spray to cool fire-expo A solid water stream may be inef				
	Media:					
	Flammable Properties an Hazards:					
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits: Autoignition Pt:	LEL: No data. No data.	UEL: No data.			
	-	: As in any fire, wear self-contained	d breathing apparatus pressure-demand (NIOSH ear to prevent contact with skin and eyes.	approved or		
		Section 6. Accidental	Release Measures			
	Protective Precautions, Protective Equipment and Emergency Procedures:	As conditions warrant, wear a NI	, and provide adequate ventilation. IOSH approved self-contained breathing apparatu tion (rubber boots, safety goggles, and heavy rubl			
-	Environmental Precautions:	Take steps to avoid release into	the environment, if safe to do so.			
	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. Handli	ing and Storage			
	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.					
	-					
	Sect	tion 8. Exposure Cont	rols/Personal Protection			
8.1	Exposure Parameters:					
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations		
103-90	-2 4-Acetamidophenol	Britain EH40	TWA: 10 mg/m3 () STEL: () (Inhalable dust)			
			N	lulti-region format		



	HEMICAL	Supersedes Revision: 09/14/2015					
8.2	Exposure Controls:						
8.2.1	Engineering Controls U	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.): le	levels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection: S	afety glasses					
	Protective Gloves: C	ompatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment N	H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices: Fa	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
	W	/ash thoroughly after handling.					
	Ν	o 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 m	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~2 mg/ml in PBS (pH 7.2); ~25 mg/ml in EtOH & DMF; ~20 mg/ml in DMSO;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature	e: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	t: C8H9NO2 151.2					



					30	persedes Revis	1011. 00/14/20
			Section 10. Stability and	Reactivit	ty		
10.1	Reactivity: No data available.						
0.2	Stability: Unstable [] Stable [X]						
0.3	3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.						
Polymerization: Will occur [] Will not occur [X]							
10.4	Conditio	ons To Avoid:	No data available.				
10.5	Incompa	atibility - Materials	strong oxidizing agents				
	To Avoid:						
10.6	Hazardous		carbon dioxide				
		osition or	carbon monoxide				
	Byprodu	icts:	nitrogen oxides				
			Section 11. Toxicological	Informati	on		
11.1	Informat	tion on	The toxicological effects of this product have	ve not been th	noroughly st	udied.	
	Toxicolo	ogical Effects:	Acetaminophen - Toxicity Data: Oral LD50				
			mg/kg; Oral LD50 (mouse): 338 mg/kg; Int	•	D50 (mouse	e): 367 mg/kg;	Oral TDLO
			(woman): 325 mg/kg; Oral LDLO (human):				
		Toxicological	Acetaminophen - Investigated as a drug, m				-
	Effects:		Only select Registry of Toxic Effects of Che		ances (RTEC	S) data is pre	sented here.
			See actual entry in RTECS for complete in Acetaminophen RTECS Number: AE42000				
			·	1			
CAS			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
103	3-90-2	4-Acetamidophen	101	n.a.	3	n.a.	n.a.
				ļ	ļ		
		·	Section 12. Ecological Ir	formatio	n		
12.1	Toxicity	:	Section 12. Ecological Ir Avoid release into the environment.	formatio	n	4	_
12.1	Toxicity	:	v			-	
12.1 12.2	Toxicity: Persiste		Avoid release into the environment.			_ 	
	-	nce and	Avoid release into the environment. Runoff from fire control or dilution water ma			-	
	Persiste Degrada	nce and	Avoid release into the environment. Runoff from fire control or dilution water ma				
12.2	Persiste Degrada	nce and bility: mulative	Avoid release into the environment. Runoff from fire control or dilution water ma No data available.				
12.2	Persiste Degrada Bioaccu	nce and bility: mulative I:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available.				
12.2 12.3	Persiste Degrada Bioaccu Potentia Mobility	nce and ibility: mulative I: in Soil:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available.				
12.2 12.3 12.4	Persiste Degrada Bioaccu Potentia Mobility	nce and ibility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available.				
12.2 12.3 12.4 12.5	Persiste Degrada Bioaccu Potentia Mobility Results assessn	nce and ibility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available.				
12.2 12.3 12.4	Persiste Degrada Bioaccu Potentia Mobility Results assessn	nce and ibility: mulative I: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.	ay cause pollu	ution.		
12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessn Other ac	nce and ability: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con	ay cause pollu sideratio	ution. NS		
12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessn Other ac	nce and ibility: mulative I: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con	ay cause pollu sideratio	ution. NS		
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12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessn Other ac	nce and ability: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con	ay cause pollu sideratio	ution. NS		
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12.2 12.3 12.4 12.5	Persiste Degrada Bioaccu Potentia Mobility Results assessn Other ac	nce and ability: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con	ay cause pollu sideratio	ution. NS		

Cayman

SAFETY DATA SHEET Acetaminophen

Section 14. Transport Information							
14.1 LAND TRANSPORT (US DOT):							
DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number:							
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):					
ADR/RID S	hipping Name:	Not dangerous goods.					
UN Numbe	r:						
Hazard Cla	SS:						
	ANSPORT (ICAO/	-					
	Shipping Name:	Not dangerous goods.					
Additional Tra	nsport	Transport in accordance with lo	cal, state, and feder	ral regulations.			
Information:		Castien 15 Deaul	atam i liafa waa	- 1'			
		Section 15. Regul		ation			
· · · · · ·	-	nents and Reauthorization Act of	-				
CAS # 103-90-2		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
	4-Acetamidopher		No	No	No		
CAS #		ponents (Chemical Name)	Other US EPA or				
103-90-2	4-Acetamidopher	nol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFF	R 1910.1200 and Re	egulation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	ner Informatio	on			
Revision Date:		06/14/2017					
Additional Info	rmation About	No data available.					
This Product:							
c e u		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.					