

Revision: 12/10/2016

	Section 1 Ide	entification of the Substance/Mixture and of t	the Company/Lindertaking				
			the company/ondenaking				
.1	Product Code:	11841					
	Product Name:	8-Gingerol					
	Synonyms:	5S-hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3	B-dodecanone;				
2	Relevant identified uses of the	he substance or mixture and uses advised ag	gainst:				
	Relevant identified uses:	For research use only, not for human or veter	inary use.				
1.3	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				
	Emergency contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	cation				
	Aquatic Toxicity (Chronic)	rritation, Category 2 icity (single exposure), Category 3					
	Serious Eye Damage/Eye I Specific Target Organ Tox	Category 2 rritation, Category 2 icity (single exposure), Category 3					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements:	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic)	Category 2 rritation, Category 2 icity (single exposure), Category 3					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases:	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word:	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation.	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation.					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases:	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning viritation. y irritation. g harmful effects to aquatic life.					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases:	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life.					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life. (fume/gas/mist/vapors/spray). ghly after handling.					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P273: Avoid release to the e	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life. (fume/gas/mist/vapors/spray). ghly after handling.	tion}.				
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P273: Avoid release to the e	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life. (fume/gas/mist/vapors/spray). ghly after handling. nvironment.	tion}.				
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glove GHS Response Phrases:	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life. (fume/gas/mist/vapors/spray). ghly after handling. nvironment.	tion}.				
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glove GHS Response Phrases: P302+352: IF ON SKIN: Wa	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life. /fume/gas/mist/vapors/spray}. ghly after handling. nvironment. es/protective clothing/eye protection/face protect					
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye in H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glove GHS Response Phrases: P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Re	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. / irritation. g harmful effects to aquatic life. /fume/gas/mist/vapors/spray}. ghly after handling. nvironment. es/protective clothing/eye protection/face protect	sition comfortable for breathing.				
.1 .2	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye in H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glove GHS Response Phrases: P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Re	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life. (fume/gas/mist/vapors/spray). ghly after handling. nvironment. es/protective clothing/eye protection/face protect sh with plenty of soap and water. move victim to fresh air and keep at rest in a pos	sition comfortable for breathing.				
	Serious Eye Damage/Eye I Specific Target Organ Tox Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory H413: May cause long lastin GHS Precaution Phrases: P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glove GHS Response Phrases: P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Re P305+351+338: IF IN EYES to do. Continue rinsing.	Category 2 rritation, Category 2 icity (single exposure), Category 3 , Category 4 Warning ritation. y irritation. g harmful effects to aquatic life. (fume/gas/mist/vapors/spray). ghly after handling. nvironment. es/protective clothing/eye protection/face protect sh with plenty of soap and water. move victim to fresh air and keep at rest in a pos	sition comfortable for breathing.				

Multi-region format

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	CHEMICAL TCCC		poroioto dat madical advica-t-	ottontion						
		-	n persists, get medical advice/a							
			Take off contaminated clothing and wash it before reuse.							
		Storage and Dispo								
Please refer to Section 7			-	-	n.					
2.3		e Human Health	Causes serious eye irritation							
	Effects	and Symptoms:	Causes skin irritation.							
			Material may be irritating to t		• •	spiratory tract.				
			May be harmful by inhalation, ingestion, or skin absorption. May cause long lasting harmful effects to aquatic life.							
			May cause respiratory system	•	me.					
					roperties have no	t been thoroughly investigated.				
		0								
		Sec	tion 3. Composition	/Information	on ingredie	nts				
		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification				
235	13-08-8	8-Gingerol		100.0 %	NA	Skin Corr. 2: H315				
JR43	62000				NA	Eye Damage 2A: H319				
						STOT (SE) 3: H335				
						Aquatic (C) 4: H413				
			Section 4. Fi	rst Aid Measu	ures					
4.1	Descri	ption of First Aid								
	Measu	res:								
	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 eyes with plenty of water for at least 15 minutes. Have eyes examined							
			and tested by medical personnel. Wash out mouth with water provided person is conscious. Never give anything by mouth to an							
	In Case	e of Ingestion:								
			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by							
			medical personnel.							
			Section 5. Fire	Fighting Mea	asures					
5.1	Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.									
	Media:		Use water spray to cool fire-exposed containers.							
	Unsuit	able Extinguishing	g A solid water stream may be	inefficient.						
	Media:									
5.2	Flammable Properties andNo data available.									
	Hazard	ls:								
			No data available.							
	Flash F	Pt:	No data.							
	Explos	ive Limits:	LEL: No data.	UEL: No da	ata.					
	-	nition Pt:	No data.							
5.3	-			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			-				

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Cayn

CALETA DATA CHEET

	1	SAFETY DATA SHEET	Page: 3 of 5
Cay	man	8-Gingerol	Revision: 12/10/2016
	S	ection 6. Accidental Release Measures	
6.1		Avoid raising and breathing dust, and provide adequate ventilation.	
		As conditions warrant, wear a NIOSH approved self-contained breathing a	
	5 , 1	and appropriate personal protection (rubber boots, safety goggles, and hea	avy rubber gloves).
6.2		ake steps to avoid release into the environment, if safe to do so.	
	Precautions:		
6.3		Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with loca	al regulations
	Up:		
		Section 7. Handling and Storage	
7.1		void breathing dust/fume/gas/mist/vapours/spray.	
	0	void prolonged or repeated exposure.	
7.2	Precautions To Be Taken K		
	in Storing: S	tore 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	Engineering Controls	se process enclosures, local exhaust ventilation, or other engineering con	trols to control airborne
	,	evels below recommended exposure limits.	
8.2.2			
	•	afety glasses	
		compatible chemical-resistant gloves	
	Other Protective Clothing:L		
		IIOSH approved respirator, as conditions warrant.	
	(Specify Type):	le net take internelly	
	Work/Hygienic/Maintenan D ce Practices:	acilities storing or utilizing this material should be equipped with an eyewa	ish and a safety shower
		/ash thoroughly after handling.	
		lo data available.	
	Sec	ction 9. Physical and Chemical Properties	
9.1	Information on Basic Physic		
	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):	No data	
	Vapor Density (vs. Air = 1):	No data.	



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	Specific	Gravity (Water =	1):	No data.						
	Solubility in Water: Solubility Notes:		No data. ~1 mg/ml in PBS (pH 7.2); ~25 mg/ml in DMSO; ~30 mg/ml in EtOH & DMF;							
	Octanol/	Water Partition		No data.						
	Coefficie	ent:								
	Autoigni	tion Pt:		No data.						
	Decomp	osition Temperat	ure:	No data.						
	Viscosity	y:		No data.						
9.2	Other Inf	ormation								
	Percent	Volatile:		No data.						
	Molecula	ar Formula & Weig	ght:	C19H30O4 32	22.4					
			S	ection 10. St	ability and	Reactivi	ty			
10.1	Reactivit	ty:	No da	ta available.						
10.2	Stability	:	Unstal	ole [] Stable []	X]					
10.3	Stability	Note(s):	Stable	if stored in accorda	nce with informa	tion listed on	the product	insert.		
	Polymer	ization:	Will oc	cur [] Will not	occur [X]					
10.4	Conditio	ns To Avoid:	No da	ta available.						
10.5	Incompa	tibility - Materials	strong	oxidizing agents						
	To Avoid	1:								
10.6	Hazardo	us	carbon dioxide carbon monoixde							
	Decomp	osition or								
	Byprodu	icts:								
			Se	ection 11. Tox	kicological	Informat	ion			
11.1	Informat	ion on	The toxicological effects of this product have not been thoroughly studied.							
	Toxicolo	gical Effects:	8-Gingerol - Toxicity Data: Intraperitoneal LD50 (mouse): >100 mg/kg;							
	Chronic	Toxicological	8-Gingerol - Investigated as a drug. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.							
	Effects:									
		See		See actual entry in RTECS for complete information.						
			8-Ging	erol RTECS Numbe	er: JR4362000					
CAS	CAS # Hazardous Com		ponent	s (Chemical Name))	NTP	IARC	ACGIH	OSHA	
2351	3-08-8	8-Gingerol				n.a.	n.a.	n.a.	n.a.	
		•	S	Section 12. Ec	cological Ir	formatio	n	+	+	
12.1 Toxicity:		Avoid release into the environment.								
				Runoff from fire control or dilution water may cause pollution.						
12.2				No data available.						
	Degradability:									
12.3	-			ta available.						
	Potentia	I:								
12.4	Mobility in Soil: No c			ta available.						
12.5	-									
	assessm									
12.6	Other adverse effects:		No da	ta available.						
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		Section 13. Dispos	al Considerat	ions				
13.1 Waste I	Disposal Method:	Dispose in accordance with loca	al, state, and federal r	egulations.				
		Section 14. Trans	sport Informat	tion				
14.1 LAND 1	RANSPORT (US	DOT):						
DOT Prope DOT Hazai UN/NA Nu		: Not dangerous goods.						
14.1 LAND	RANSPORT (Eur	opean ADR/RID):						
ADR/RID S	hipping Name:	Not dangerous goods.						
UN Numbe	er:							
Hazard Cla	ISS:							
	ANSPORT (ICAO/	-						
	Shipping Name:	Not dangerous goods.						
Additional Tra	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.				
Information:								
		Section 15. Regul	atory Informa	tion				
•	1	nents and Reauthorization Act of	-	1				
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
23513-08-8	8-Gingerol		No	No	No			
CAS #		ponents (Chemical Name)	State Lists					
23513-08-8	8-Gingerol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No						
Regulatory Inf	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.						
		Section 16. Oth	ner Information	n				
Revision Date:		12/10/2016 No data available.						
Additional Info	rmation About							
This Product:								
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o their particular purposes.	er, we make no warra to such information,	anty of merchanta and we assume r	ability or any other warranty no liability resulting from its			