

Revision: 10/15/2018 Supersedes Revision: 08/15/2013

	accordir	g to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83					
		Identification of the Substance/Mixture and of t					
1	Product Code:		ne company on doitaining				
•	Product Code. Product Name:	11880 Ferulic Acid ethyl ester					
	Synonyms:	3-(4-hydroxy-3-methoxyphenyl)-2-propenoic a	icid, ethyl ester: BBR 3222: NSC 14879				
			• • • • • • • • • •				
2	Relevant identified uses of	f the substance or mixture and uses advised ag For research use only, not for human or veteri					
3	······································						
5	Details of the Supplier of the Safety Data Sheet: Company Name: 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				
Ļ	Emergency telephone nur	nber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
1	Classification of the Subs	tance or Mixture:					
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements:	, Category 2 e Irritation, Category 2 oxicity (single exposure), Category 3					
2	Specific Target Organ T	e Irritation, Category 2					
2	Specific Target Organ T Label Elements: GHS Signal Word:	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases:	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning					
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning on.					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning on. e irritation. ory irritation.					
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2.3	10.00 million (10.00		Ferulic	: Acid ethyl es	ster	Revision: 10/15/2018		
2.3	men					Supersedes Revision: 08/15/2013		
	Advers	e Human Health	Causes serious eye irritation					
	Effects	and Symptoms:	Causes skin irritation.					
			Material may be irritating to the			spiratory tract.		
			May be harmful by inhalation	-	bsorption.			
			May cause respiratory syster					
			To the best of our knowledge	e, the toxicological pr	roperties have no	t been thoroughly investigated.		
		Sec	tion 3. Composition	/Information	on Ingredie	nts		
CAS #	#/	-	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTEC	:S #	REACH Registra	tion No.		EC Index No.			
	6-02-0	Ferulic Acid ethyl es	ter	100.0 %	223-745-5	Skin Corr. 2: H315		
NA					NA	Eye Damage 2: H319		
						STOT (SE) 3: H335		
			Section 4. Fi	rst Aid Measu	ures			
l.1	-	ption of First Aid						
	Measu							
	In Case	e of Inhalation:			l respiration or gi	ve oxygen by trained personnel		
			Get immediate medical attent			.		
	In Case	e of Skin Contact:	•			0 minutes. Remove contaminat		
			clothing. Get medical attentio		-			
	In Case	e of Eye Contact:	 Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel. 					
	In Case	n Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an						
	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	Suitab	le Extinguishing	Use alcohol-resistant foam, o	arbon dioxide, wate	r, or dry chemica	l spray.		
	Media:							
	Unsuit	able Extinguishing	Use water spray to cool fire-exposed containers. iishing A solid water stream may be inefficient.					
	Media:							
5.2	Flamm	able Properties an	dNo data available.					
5.2	Hazard	-	dNo data available.					
5.2		-	d No data available. No data available.					
5.2		ls:						
5.2	Hazard Flash F	ls:	No data available.	UEL: No da	ata.			
5.2	Hazard Flash F Explos	ls: Pt: sive Limits:	No data available. No data.	UEL: No da	ata.			
5.2	Hazard Flash F Explos Autoig	ls: Pt: sive Limits: nition Pt:	No data available. No data. LEL: No data.			lemand (NIOSH approved or		



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	Se	ection 6. Accidental Release Measures				
6.1	Protective Precautions, Av	void raising and breathing dust, and provide adequate ventilation.				
		s conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures: an	d appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2		ake steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3	Methods and Material For Co	ontain 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 Av	oid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling: Av	oid prolonged or repeated exposure.				
7.2	Precautions To Be Taken Ke	ep container tightly closed.				
	in Storing: Sto	pre in accordance with information listed on the product insert.				
	Sectior	n 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls Us	e process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.): lev	els below recommended exposure limits.				
8.2.2	Personal protection equipme	nt:				
	Eye Protection: Sa	fety glasses				
	Protective Gloves: Co	mpatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment NIC	OSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan Do	not take internally.				
	ce Practices: Fa	ties storing or utilizing this material should be equipped with an eyewash and a safety shower.				
	Wa	ash thoroughly after handling.				
	No	data available.				
	Sect	tion 9. Physical and Chemical Properties				
9.1	Information on Basic Physica	I 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 mi	m No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
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		4) NL L (
	Specific Gravity (Water =	•					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution in DMSO;	of EtOH:PBS (pH	7.2); ~20 mg/	ml in EtOH & D	0MF; ~11 mg/ml	
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperat	ure: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ght: C12H14O4 222.2					
		Section 10. Stability	and Reactiv	rity			
10.1	Reactivity:	No data available.					
10.2	Stability:	Unstable [] Stable [X]					
10.3	Stability Note(s):	Stable if stored in accordance with i	nformation listed or	n the product	insert.		
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.					
10.5	Incompatibility - Materials	strong oxidizing agents					
	To Avoid:						
10.6	Hazardous	carbon dioxide	n dioxide				
	Decomposition or	carbon monoxide					
	Byproducts:						
		Section 11. Toxicolog	gical Informa	tion			
11.1	Information on Toxicological Effects:	The toxicological effects of this proc	luct have not been	thoroughly st	udied.		
CAS #	# Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
404	6-02-0 Ferulic Acid ethyl	· · · · ·	n.a.	n.a.	n.a.	n.a.	
		Section 12. Ecologic	cal Information	 on			
12.1	Toxicity:	Avoid release into the environment.					
		Runoff from fire control or dilution w	ater may cause po	llution.			
12.2	Persistence and	No data available.					
	Degradability:						
12.3	Bioaccumulative	No data available.					
	Potential:						
12.4	Mobility in Soil:	No data available.					
12.5	Results of PBT and vPvB	No data available.					
	assessment:						
12.6	Other adverse effects:	No data available.					

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CHIMICAL				Superse	des Revision: 08/15/2013	
		Section 13. Dispos	al Considerat	ions		
3.1 Waste D	.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.					
		Section 14. Tran	sport Informat	ion		
14.1 LAND T	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	Not dangerous goods.				
DOT Hazar	d Class:					
UN/NA Nur						
	-	opean ADR/RID):				
ADR/RID S	hipping Name:	Not dangerous goods.				
Hazard Cla						
14.3 AIR TR	ANSPORT (ICAO/	/IATA):				
ICAO/IATA	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		
EPA SARA (Sı	perfund Amendn	nents and Reauthorization Act	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
4046-02-0	Ferulic Acid ethy	lester	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name) Other US EPA or State Lists				
4046-02-0	Ferulic Acid ethy	l ester CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	lation (EC)	
Statement:		No.1272/2008.				
		Section 16. Oth	ner Information	า		
Revision Date:		10/15/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	y or Disclaimer:	DISCLAIMER: This information currently available to us. Howev		-		
		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.				