

SAFETY DATA SHEET Kaempferol

1.1			e Company/Undertakind				
.1	President Onder	entification of the Substance/Mixture and of th	e company/ondertaking				
	Product Code: Product Name:	11852 Kaempferol					
		•	zonvran-4-one: Nimbecetin: NSC 407289: NSC				
	Synonyms:3,5,7-trihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; Nimbecetin; NSC 407289; NSG656277; Pelargidenon; Rhamnolutein; Swartziol; Trifolitin;						
1.2	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.						
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				
1.4	Emergency telephone num		.4 (200) 424 0200				
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
	Classification of the Substance Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, C Label Elements:	gory 3					
	Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, C	gory 3					
	Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, C	gory 3					
	Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, C Label Elements:	ngory 3 Category 2					
	Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, C Label Elements: GHS Signal Word:	ngory 3 Category 2					
	Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, O Label Elements: GHS Signal Word: GHS Hazard Phrases:	egory 3 Category 2 Danger					
	Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, O Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H341: Suspected of causin GHS Precaution Phrases:	agory 3 Category 2 Danger g genetic defects.					
	Acute Toxicity: Oral, Cate Germ Cell Mutagenicity, O Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H341: Suspected of causing GHS Precaution Phrases: P264: Wash {hands} thorow	egory 3 Category 2 Danger g genetic defects.					
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	(SAFE	TY DATA SH	IEET	Page: 2 of 5	
Caro	, 	ŀ	Kaempferol		Revision: 03/14/2018	
Cay	nan				Supersedes Revision: 02/26/2014	
	Adverse Human Healt			nes and upper re	spiratory tract.	
	Effects and Symptoms		-	ion		
		May cause eye, skin, or resp Suspected of causing geneti		юп.		
		Toxic if swallowed.				
		To the best of our knowledge	e, the toxicological p	roperties have no	t been thoroughly investigated.	
	Se	ection 3. Composition	/Information	on Ingredie	nts	
CAS # RTECS		mponents (Chemical Name)/ tration No.	Concentration	EC No./ EC Index No.	GHS Classification	
520-1 LK9275			100.0 %	208-287-6 NA	Acute Tox.(O) 3: H301 Mutagen 2: H341	
		Section 4. Fi	rst Aid Measu	ures		
4.1	Description of First Ai					
	Measures:					
	In Case of Inhalation:	Remove to fresh air. If not bro Get immediate medical atten		l respiration or given or giv	ve oxygen by trained personnel.	
	In Case of Skin Contac	t: Immediately wash skin with s	oap and plenty of w	ater for at least 15	5 minutes. Remove contaminated	
		clothing. Get medical attentic	n if symptoms occur	r. Wash clothing b	pefore reuse.	
	In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examinand tested by medical personnel.					
	In 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		
	Suitable ExtinguishingUse alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.Media:Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguish Media:	ing A solid water stream may be	inefficient.			
	Flammable Properties	andNo data available.				
	Hazards:					
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data.	UEL: No da	ata.		
	Autoignition Pt:	No data.				
5.3	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.					
					Multi-region format	



SAFETY DATA SHEET Kaempferol

	S	Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
		As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
		and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2		Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3		Contain spill and collect, as appropriate				
	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:					
		Caption 7. Llondling and Ctarges				
		Section 7. Handling and Storage				
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.				
	•	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken					
	in Storing:	Store in accordance with information listed on the product insert.				
	Section	on 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipn	nent:				
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment	NOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan Do not take internally.					
	cacilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
	V	Vash thoroughly after handling.				
	١	No data available.				
	Se	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 r	nm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
		Multi-region forma				

SAFETY DATA SHEET Kaempferol

	-	Gravity (Water =							
		y in Water:	No data.						
	Solubility	y Notes:	~0.2 mg/ml in a 1:4 solution of	of EtOH:PBS (pH	7.2); ~11 mg/	ml in EtOH; ~1	0 mg/ml in		
			DMSO; ~3 mg/ml in DMF;						
		Water Partition	No data.						
	Coefficie	ent:							
	Autoigni	tion Pt:	No data.						
	Decomp	osition Temperat	ure: No data.						
	Viscosity	/:	No data.						
9.2	Other Info	ormation							
	Percent V	Volatile:	No data.						
	Molecula	ar Formula & Weig	ght: C15H10O6 286.2						
			Section 10. Stability	and Reactiv	vity				
10.1	Reactivit	y:	No data available.		<u> </u>				
10.2	Stability:	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with in	nformation listed o	n the product	insert.			
	Polymeri	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.						
10.5			strong oxidizing agents						
	To Avoid	-							
10.6	Hazardo		carbon dioxide						
		osition or	carbon monoxide						
	Byprodu								
	Byprodu								
			Section 11. Toxicolog	ical Informa	tion				
11.1	Informat	ion on	The toxicological effects of this prod	uct have not been	thoroughly st	udied.			
	Toxicolo	gical Effects:	Kaempferol - Toxicity Data: Oral TDI	LO (mouse): 0.02	mg/kg; Oral T	DLO (rat): 400	mg/kg/4D		
			(intermittent);						
	Chronic	Toxicological	Kaempferol - Investigated as a muta	gen, natural produ	uct, and tumo	rigen.			
	Effects:		Only select Registry of Toxic Effects	of Chemical Subs	stances (RTE	CS) data is pre	sented here.		
			See actual entry in RTECS for comp	ctual entry in RTECS for complete information.					
			Kaempferol RTECS Number: LK927	5200					
CAS #	ŧ	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
520)-18-3	Kaempferol		n.a.	3	n.a.	n.a.		
			Section 12. Ecologic	al Informati	on	•	•		
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution wa	ater may cause po	llution.				
12.2	Persister	nce and	No data available.	, ,					
	Degrada								
12.3	Bioaccui	-	No data available.						
12.3	Potential								
40.4									
12.4	Mobility		No data available.						
12.5			No data available.						
	assessm								
12.6	Other ad	verse effects:	No data available.						
						N	Iulti-region format		



SAFETY DATA SHEET Kaempferol

CHIMICAL		Section 13 Dispo	sal Considera	•	ersedes Revision: 02/26/2014	
3.1 Waste	Section 13. Disposal Considerations Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.					
		Section 14. Transport Information				
14.1 LAND	TRANSPORT (US		•			
DOT Prop	er Shipping Name	: Toxic solid, organic, n.o.s.	(Kaempferol)			
DOT Haza		6.1 POISON	,			
UN/NA Number:		UN2811	Packing Group:		III	
		POISON 6				
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):				
ADR/RID	Shipping Name:	Toxic solid, organic, n.o.s.	(Kaempferol)			
UN Numb		2811	Packing Gro	pup:	III	
Hazard C		6.1 - POISON				
	RANSPORT (ICAO)	-				
	A Shipping Name:					
UN Numb		2811	Packing Gro	-		
Hazard C		6.1 - POISON	IATA Classi		6.1	
Additional Trainformation:	ansport	Transport in accordance with local, state, and federal regulations. 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 me		-	-	
		Therefore packaging does not	have to be labeled a	s Dangerous Good	ls/Excepted Quantity.	
		Section 15. Regu	llatory Informa	ation		
EPA SARA (S		nents and Reauthorization Act	-			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
520-18-3	Kaempferol		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists		
520-18-3	Kaempferol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory In	formation	This SDS was prepared in acc	ordance with 29 CFR	1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.			- · · ·	
		Section 16. Ot	her Informatio)n		
Revision Date	:	03/14/2018				
Additional Inf	ormation About	No data available.				
This Product:						
	icy or Disclaimer:	DISCLAIMER: This information	n is believed to be ac	curate and represe	nts 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.				
					Multi-region for	