

Revision: 05/07/2019

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	Contion 1 1	dontification of the Substance/Mixture and of th	ho Company/Undortaking							
	Section 1. 1	dentification of the Substance/Mixture and of the	ne company/undertaking							
.1	Product Code:	20413								
	Product Name:	W-15-d4 (CRM)								
	Synonyms:	4-chloro-N-[1-(2-phenylethyl)-2-piperidinyliden	ne]-benzenesulfonamide-d4;							
2	Relevant identified uses of the substance or mixture and uses advised against:									
	Relevant identified uses:	For research use only, not for human or vetering	nary 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 nun									
	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 Subst	ance or Mixture:								
	Flammable Liquids, Cate	aory 2								
	-	Flammable Liquids, Category 2								
	Acute Toxicity: Inhalation, Category 3									
	-									
	Acute Toxicity: Oral, Cat	egory 3								
	Acute Toxicity: Oral, Cat Acute Toxicity: Skin, Ca	egory 3 tegory 3								
.2	Acute Toxicity: Oral, Cat Acute Toxicity: Skin, Ca	egory 3								
2	Acute Toxicity: Oral, Cat Acute Toxicity: Skin, Cat Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable life H301: Toxic if swallowed. H311: Toxic in contact with H331: Toxic if inhaled.	egory 3 tegory 3 oxicity (single exposure), Category 1 Category 1 Danger quid and vapor.								
2	Acute Toxicity: Oral, Cat Acute Toxicity: Skin, Cat Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lin H301: Toxic if swallowed. H311: Toxic in contact with H331: Toxic if inhaled. H370: Causes damage to	egory 3 tegory 3 oxicity (single exposure), Category 1 Danger quid and vapor. n skin.								
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	P321:	Specific treatment	{see on this label}.							
	P330:	Rinse mouth.								
	P361+	-364: Take off imme	ediately all contaminated cloth	ning and wash it be	efore reuse.					
	GHS S	Storage and Dispo	osal Phrases:							
			refer to Section 7 for Storage and Section 13 for Disposal information.							
2.3		e Human Health	Causes damage to organs {	-						
		and Symptoms:	Material may be irritating to		oranes and upper reg	spiratory tract				
	LIIECIS	and Symptoms.	May be fatal or cause blindr							
			May cause eye, skin, or res		itation					
			Toxic if inhaled, swallowed,							
						t been thoroughly investigated.				
			_	-						
		1	tion 3. Composition	1		I				
CAS	-	-	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification				
RTEC	CS #	REACH Registra	tion No.		EC Index No.					
NA		W-15-d4		0.01 %	NA	Acute Tox.(O) 2: H300				
NA					NA	Acute Tox.(D) 2: H310				
						Acute Tox.(I) 1: H330				
-	-56-1	Methanol		99.99 %	200-659-6	Flam. Liq. 2: H225				
PC140	00000	01-2119392409-28			603-001-00-X	Acute Tox.(O) 3: H301				
						Acute Tox.(D) 3: H311				
						Acute Tox.(I) 3: H331				
						STOT (SE) 1: H370				
. 4	Deserie	ation of First Aid	Section 4. F	ISLAID IVIEA	isures					
4.1	-	otion of First Aid								
	Measu									
	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:	-		-	5 minutes. Have eyes examined				
	in euco		and tested by medical perso							
	In Case	e of Ingestion:			conscious Never a	ive anything by mouth to an				
	in case	e 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.			ng unless unected to do so by				
			·	.						
4.2			d Overexposure may cause: confusion, dermatitis, headache, drowsiness, dizziness, gastrointestina							
		, Both Acute and	disturbance, optic nerve damage (blindness), nausea, unconsciousness, vomiting, visual							
	Delaye	d:	disturbance, weakness.							
			May cause convulsions.							
			Once methanol is absorbed	into the body, it is	very slowly eliminate	ed.				



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		Section 5. Fire	Fighting Measures				
5.1	Suitable Extinguishing	Use alcohol-resistant foam, ca	arbon dioxide, water, or dry chemical spray.				
	Media:	Use water spray to cool fire-ex	posed containers.				
	Unsuitable Extinguishing	A solid water stream may be i	nefficient.				
	Media:						
5.2	Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.						
	Hazards:	Container explosion may occu					
		Emits toxic fumes under fire c	onditions.				
		Sensitive to static discharge.					
		Vapors can travel to a source	of ignition and flash back.				
		No data available.					
	Flash Pt:	11.00 C Method Used: Clo	sed Cup				
	Explosive Limits:	LEL: 6.0% at 25.0 C	UEL: 36.0% at 25.0 C				
	Autoignition Pt:	385.00 C					
5.3	Fire Fighting Instructions	: As in any fire, wear self-conta	ined breathing apparatus pressure-demand (N	NOSH approved or			
		equivalent), and full protective	gear to prevent contact with skin and eyes.				
		Note: Flammable as diluted in	methanol.				
		Section 6. Accident	al Release Measures				
6.1	Protective Precautions,	Avoid breathing vapors and p	rovide adequate ventilation.				
	Protective Equipment an	d As conditions warrant, wear a	NIOSH approved self-contained breathing ap	oparatus, or respirator,			
	Emergency Procedures:	and appropriate personal pro	tection (rubber boots, safety goggles, and hea	vy rubber gloves).			
6.2	Environmental	Take steps to avoid release in	nto the environment, if safe to do so.				
	Precautions:						
6.3	Methods and Material Fo	r Contain spill and collect, as a	ppropriate.				
Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with				al regulations.			
	Up:						
		Section 7 Han	dling and Storage				
	Dracoutiona To Po Tokon	Avoid breathing dust/fume/gas	<u> </u>				
7.1		• •	· · · ·				
	in Handling:	void prolonged or repeated exposure. Keep away from sources of ignition.					
		Take precautionary measures					
7.2	Precautions To Be Taken						
	Precautions To Be Taken Keep away from heat, sparks, and flame. in Storing: Keep container tightly closed.						
	Store in accordance with information listed on the product insert.						
			-				
8.1	Exposure Parameters:		ntrols/Personal Protection				
	-	luniadiation	Decommonded Evenesuus Limite	Netetione			
CAS		Jurisdiction	Recommended Exposure Limits	Notations			
67-56	S-1 Methanol	ACGIH TLV	TLV: 200 ppm STEL: 250 ppm				
		Europe	TWA: 260 mg/m3 (200 ppm)	Skin Absorption			
		France VL	TWA: 260 mg/m3 (200 ppm)				
			STEL: 1300 mg/m3 (1000 ppm)				
		OSHA PELs	PEL: 200 ppm				
			TIN(A 000				
		Britain EH40	TWA: 266 mg/m3 (200 ppm) STEL: 333 mg/m3 (250 ppm)	Skin Absorption			

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8.2 8.2.1 8.2.2	(Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne								
	(Ventilation etc.):									
8.2.2		ovela helew recommanded expegure limite								
8.2.2	Personal protection equip	tion etc.): levels below recommended exposure limits.								
	Personal protection equipment:									
	Eye Protection:	Safety glasses								
	Protective Gloves:	Compatible chemical-resistant gloves								
	Other Protective Clothing:Lab coat									
	-	NIOSH approved respirator, as conditions warrant.								
	(Specify Type):									
	Work/Hygienic/Maintenan Do not take internally.									
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe								
		Wash thoroughly after handling.								
		No data available.								
		ction 9. Physical and Chemical Properties								
9.1	-	cal and Chemical Properties								
	Physical States:	[]Gas [X]Liquid []Solid								
	Appearance and Odor:	A 100 μg/ml solution in methanol								
	pH:	No data.								
	Melting Point:	No data.								
	Boiling Point:	No data.								
	Flash Pt:	11.00 C Method Used: Closed Cup								
	Evaporation Rate:	No data.								
	Flammability (solid, gas):	No data available.								
	Explosive Limits:	LEL: 6.0% at 25.0 C UEL: 36.0% at 25.0 C								
	Vapor Pressure (vs. Air or	mm 96 MM_HG at 20.0 C								
	Hg):	No data.								
	Vapor Density (vs. Air = 1)									
	Specific Gravity (Water = 1	-								
	Solubility in Water:	No data.								
	Octanol/Water Partition	No data.								
	Coefficient:									
	Autoignition Pt:	385.00 C								
	Decomposition Temperatu									
	Viscosity:	No data.								
9.2	Other Information									
	Percent Volatile:	No data.								
	Molecular Formula & Weig	ht: C19H17D4CIN2O2S 380.9								



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Section 10. Stability and Reaction						vity			
10.1	Reactivit	ty:	No data available.						
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.						
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ons To Avoid:	heat, flames	, and sparks					
10.5	Incompa	compatibility - Materials acids							
	To Avoid	d:	acid anhydri	des					
			acid chloride	s					
			alkali metals						
			oxidizing age						
			reducing age						
10.6	Hazardo		carbon dioxi						
	=	osition or	carbon mono	DXIDE					
	Byprodu	icts:							
			Sectio	n 11. Toxicological	Inform	ation			
11.1	Informat	ion on	The toxicolog	gical effects of this product ha	ve not bee	n thoroughly st	udied.		
	Toxicolo	gical Effects:		oxicity Data: Oral LD50 (rat):	-		-	mg/kg; Oral	
				: 6422 mg/kg; Intraperitoneal			-		
				C50 (rat): 64,000 ppm (4h); Inl			1,100 ppm (13 [,]	4 m); Skin LD50	
				800 mg/kg; Oral LDLO (humar		-	o (robbit), 10 m	a moderate.	
			Methanol - Irritation Data: Skin (rabbit): 20 mg (24h) moderate; Eyes (rabbit): 40 mg moderate;						
	Chronic	Toxicological	Eyes (rabbit): 100 mg (24h) moderate; Methanol - Investigated as a drug, mutagen, primary irritant, reproductive effector, and tumorigen.						
	Chronic Toxicological Effects:					-		-	
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.						
			Methanol RTECS Number: PC1400000						
Carci	nogenicity	<i>/</i> :	NTP? No IARC Monographs? No OSHA Regulated? No						
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
	NA W-15-d4				n.a.	n.a.	n.a.	n.a.	
67	67-56-1 Methanol				n.a.	n.a.	n.a.	n.a.	
		•	Secti	on 12. Ecological II	format	tion	•	•	
12.1	2.1 Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
12.2	2 Persistence and		No data available.						
	Degrada	bility:							
12.3	3 Bioaccumulative No		No data avai	ilable.					
	Potentia	I:							
12.4	Mobility in Soil:		No data available.						
12.5	-		No data available.						
	assessm	nent:							
12.6	Other ad	lverse effects:	No data ava	ilable.					



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		O a atlana d	0 D'	0	()		
			3. Disposal				
13.1 Waste	Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.						
		Section	14. Transp	ort Informa	tion		
14.1 LAND	TRANSPORT (US DO	OT):					
DOT Prop	per Shipping Name:	Methanol So	lution				
DOT Hazard Class:		3 (6.1) FLAMMABLE LIQUID, POISON					
UN/NA N	umber:	UN1230		Packing Gro	up:	II	
		FLUMMUBLE LIQUID	POISON 6				
14.1 LAND	TRANSPORT (Europ	ean ADR/RID):					
	Shipping Name:	Methanol So	lution				
UN Numb		1230		Packing Gro	up:	II	
Hazard Class: 3 (6.1) - FLAMMABLE I POISON			MMABLE LIQUID				
14.3 AIR T	RANSPORT (ICAO/IA	TA):					
ICAO/IAT	A Shipping Name:	Methanol Solution					
UN Numb	ber:	1230Packing Group:				II	
Hazard Class: 3 (6.1) - FLAMMA POISON			MMABLE LIQUID	IATA Classif	ication:	3, 6.1	
Additional Tr	ansport	Transport in acco	ordance with local	state, and federa	al regulations.		
Information:		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 meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.					
		Therefore packag	ging does not have	e to be labeled as	s Dangerous Good	ls/Excepted Quantity.	
		Section	15. Regulat	ory Informa	ition		
EPA SARA (S	Superfund Amendme			986) Lists	-		
CAS #	Hazardous Comp	onents (Chemic	al Name)	6. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	W-15-d4		1	No	No	No	
67-56-1	Methanol		1	No	Yes 5000 LB	Yes	
CAS #	Hazardous Compo	onents (Chemic	al Name) C	Other US EPA or State Lists			
NA W-15-d4 CAA HAP,ODC: No; CV PROP.65: No PROP.65: No			lo; CWA NPDES:	No; TSCA: No; CA			
67-56-1 Methanol				CAA HAP,ODC: HAP: VHAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox.			



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Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
	Section 16. Other Information
Revision Date:	05/07/2019
Additional Information About This Product:	No data available.
This Product: Company Policy or Disclaimer:	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.

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