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		Saction 1 Id	entification of the Substan	ce/Mixture and o	f the Company/Lir	ndertaking			
					i ine company/or	IUEITAKII Y			
.1	Product		25909						
	Product		ReZolve-Alkyne™						
	Synony	ms:	(OC-6-33)-tricarbonyl[5-(4-ethynylphenyl)-2H-tetrazolatokappa;N2](1,10-phenanthrolinekapp .N1,.kappa.N10)-rhenium;						
.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.								
.3	Details of the Supplier of the Safety Data Sheet:								
	Comp	any Name:	Ime: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web s	ite address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335			
.4	Emerge	ncy telephone numb	er:						
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887			
			Section 2. Haz	zards Identif	ication				
.1	Classifi	cation of the Substa	nce or Mixture:						
		cation of the Substa lements:	nce or Mixture:						
	Label El GHS S	lements: Signal Word:	nce or Mixture: None						
	Label El GHS S GHS H	lements: Signal Word: Hazard Phrases:	None						
	Label El GHS S GHS H Based	lements: Signal Word: Hazard Phrases: I on evaluation of curre		stance or mixture is	s not classifiable ac	cording to GHS.			
	Label El GHS S GHS H Based GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases:	None	stance or mixture is	s not classifiable ac	cording to GHS.			
	Label El GHS S GHS H Based GHS F No phi	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply.	None	stance or mixture is	s not classifiable ac	cording to GHS.			
	Label El GHS S GHS H Based GHS F No phi GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases:	None	stance or mixture is	s not classifiable ac	cording to GHS.			
	Label El GHS S GHS H Based GHS F No phi GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply.	None ently available data this subs	stance or mixture is	s not classifiable ac	cording to GHS.			
	Label El GHS S GHS H Based GHS F No phi GHS S	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa	None ently available data this subs			cording to GHS.			
.2	Label El GHS S GHS H Based GHS F No phi GHS S Please	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for	None ently available data this subs Il Phrases: Storage and Section 13 for	Disposal informati	on.	-			
.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health	None ently available data this subs I Phrases: Storage and Section 13 for Material may be irritating to th	Disposal informati	on. anes and upper res	-			
.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health and Symptoms:	None ently available data this subs I Phrases: Storage and Section 13 for Material may be irritating to the May be harmful by inhalation,	Disposal informati ne mucous membra , ingestion, or skin	on. anes and upper res absorption.	-			
.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M	None ently available data this subs I Phrases: Storage and Section 13 for Material may be irritating to the May be harmful by inhalation, May cause eye, skin, or respi	Disposal informati ne mucous membra , ingestion, or skin iratory system irrita	on. anes and upper res absorption. tion.	-			
2.1 2.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health and Symptoms: N T	None ently available data this subs I Phrases: Storage and Section 13 for Material may be irritating to the May be harmful by inhalation, May cause eye, skin, or respi	Disposal informati ne mucous membra , ingestion, or skin iratory system irrita , the toxicological p	on. anes and upper res absorption. tion. properties have not	piratory tract. been thoroughly investigated.			
2.2 2.3	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers Effects	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M T Sectio	None ently available data this subs I Phrases: Storage and Section 13 for Material may be irritating to the May be harmful by inhalation, May cause eye, skin, or respi To the best of our knowledge on 3. Composition, ments (Chemical Name)/	Disposal informati ne mucous membra , ingestion, or skin iratory system irrita , the toxicological p	on. anes and upper res absorption. tion. properties have not	piratory tract. been thoroughly investigated.			

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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case 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 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.
	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 Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	<b>d</b> No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	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.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		r Contain spill and collect, as appropriate.
0.5		g 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	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	

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0 2	Experies Controla							
8.2	Exposure Controls:							
8.2.1		process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
(Ventilation etc.): levels below recommended exposure limits.								
8.2.2								
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat							
	Respiratory Equipment	H approved respirator, as conditions warrant.						
	(Specify Type):							
	Work/Hygienic/Maintenan Do not take internally.							
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe						
	١	Wash thoroughly after handling.						
	1	No data available.						
	Se	ction 9. Physical and Chemical Properties						
9.1		cal and Chemical Properties						
5.1	-	[]Gas []Liquid [X]Solid						
	Physical States:							
	Appearance and Odor:	A 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	mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1):	No data.						
	Specific Gravity (Water = 1)	No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	Soluble (slightly) in: water;						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu	: No data.						
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Weigl							

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			Secti	on 10. Stability and	d Reacti	vity			
10.1	<b>1 Reactivity:</b> 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	ns To Avoid:	No data ava	ilable.					
10.5									
	To Avoid	1:	oxidizing agents						
10.6	0.6 Hazardous		carbon dioxide						
	Decomposition or		carbon monoxide						
	Byproducts:								
			Sectio	n 11. Toxicologica	I Informa	ation			
11.1	11.1 Information on		The toxicological effects of this product have not been thoroughly studied.						
	Toxicolo	gical Effects:							
Carcir	nogenicity	<b>/:</b>	NTP? No IARC Monographs? No		OSHA Re	OSHA Regulated? No			
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
20708	360-85-2	ReZolve-Alkyne™	М		n.a.	n.a.	n.a.	n.a.	
		r 	Secti	on 12. Ecological	Informat	ion			
12.1	Toxicity:		Avoid releas	e into the environment.					
	-		Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No data ava	ilable.					
	Potentia	l:							
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5	Results	of PBT and vPvB	No data ava	ilable.					
	assessm	ent:							
12.6									
	Section 13. Disposal Considerations								
13.1									
	Section 14. Transport Information								
14.1	· · ·								
D	OT Prope	r Shipping Name:	Not dan	gerous goods.					
D	DOT Hazard Class:								
U	UN/NA Number:								
14.1									
A	14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods.								
U	N Number	:							
н	azard Clas	SS:							
1									
1									
1									



14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

ame: Not dangerous goods.

Additional Transport Information:

# Section 15. Regulatory Information

Transport in accordance with local, state, and federal regulations.

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
2070860-85-2	ReZolve-Alkyne™		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
2070860-85-2	ReZolve-Alkyne <sup>⊤</sup>	м	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Information Statement:		This SDS was prepared in accord No.1272/2008.	ordance with 29 CFR	1910.1200 and Re	egulation (EC)		
		Section 16. Otl	ner Informatio	n			
Revision Date:		07/29/2018					
Additional Information About This Product:		No data available.					
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.					