

		accor		/N //				
		Section 1. Id	entification of the Substa	nce/Mixture and of	the Company/U	ndertaking		
.1	Product	Code:	11994					
	Product	Name:	TCN 238					
1.2	Relevar	Relevant identified uses of the substance or mixture and uses advised against:						
	Releva	ant identified uses:	For research use only, r	not for human or vete	erinary use.			
1.3	Details of the Supplier of the Safety Data Sheet:							
	Comp	any Name:	Cayman Chemical Com	pany				
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web s	ite address:	www.caymanchem.com					
		nation:	Cayman Chemical Com		+1 (73	4)971-3335		
1.4		ncy telephone num	-	P		.,		
	•	jency Contact:	CHEMTREC Within US	A and Canada:	+1 (80	0)424-9300		
			CHEMTREC Outside US			3)527-3887		
			Section 2. Ha	zarde Identifi	cation			
2.1	Cleasifi	cation of the Substa			cation			
2.1 2.2		lements:	nce or mixture:					
2.2								
		Signal Word:	None					
	GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
		Precaution Phrases:	-	ostance of mixture is	not classifiable ad	cording to GHS.		
	No phrases apply. GHS Response Phrases:							
		rases apply.						
	GHS Storage and Disposal Phrases:							
	Please refer to Section 7 for Storage and Section 13 for Disposal information.							
2.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.							
	Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.							
			May cause eye, skin, or res					
		-	Fo the best of our knowleda	e, the toxicological p	properties have not	been thoroughly investigate		
		Sectio	on 3. Composition	n/Information	on Ingredie	nts		
CAS	#/	1		n/Information	on Ingredie	∩tS GHS Classification		
CAS	# / CS #	1	on 3. Composition	1		1		
RTE		Hazardous Compo	on 3. Composition	1	EC No./	1		

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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:	g A solid water stream may be inefficient.				
5.2	Flammable Properties ar Hazards:	IdNo 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 Instruction	s: 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 raising and breathing dust, 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	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3		r Contain spill and collect, as appropriate. ngTransfer to a chemical waste container for disposal in accordance with local regulations.				
	Up:					
		 Section 7 Handling and Storage				
		Section 7. Handling and Storage				
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	in Storing:	Keep container tightly closed. 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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ay	man	
3.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn
	(Ventilation etc.):	levels below recommended exposure limits.
3.2.2	Personal protection equip	oment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing	:Lab coat
	Respiratory Equipment	NIOSH 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 showed
		Wash thoroughly after handling.
		No data available.
	<u> </u>	action 0 Developl and Chamical Properties
		ection 9. Physical and Chemical Properties
).1	-	sical 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	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 in: EtOH; DMSO;
	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.



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			Section 10. Stability a	and Reactiv	vity				
10.1	Reactivity: No data available.								
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with in	formation listed o	on the product	insert.			
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	No data available.						
10.5	Incompa	atibility - Materials	strong acids						
	To Avoid	d:	strong bases						
			strong oxidizing agents						
40.0	Useerda		strong reducing agents						
10.6	Hazardo		No data available.						
	Byprodu	osition or							
	Byproud		Castian 44 Taviaslari						
			Section 11. Toxicologi						
11.1	Informat		The toxicological effects of this produ	ct have not been	n thoroughly st	udied.			
		ogical Effects:							
CAS			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
1254	04-04-8	TCN 238		n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecologic	al Informati	ion				
12.1	Toxicity		Avoid release into the environment.						
	-		Runoff from fire control or dilution wa	ter may cause po	ollution.				
12.2	Persiste	nce and	No data available.						
	Degrada	bility:							
12.3	Bioaccu	mulative	No data available.						
	Potentia	l:							
12.4	Mobility	in Soil:	No data available. 3 No data available.						
12.5	Results	of PBT and vPvB							
	assessm	nent:							
12.6	Other ad	lverse effects:	No data available.						
			Section 13. Disposal (Considerati	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with local, sta	te, and federal re	egulations.				
			Section 14. Transpo	rt Informati	ion				
14.1	LAND T	RANSPORT (US I	· · · · ·						
D		r Shipping Name:	-						
	OT Hazar								
U	N/NA Nun	nber:							
14.1	LAND T	RANSPORT (Euro	ppean ADR/RID):						
Α	DR/RID S	hipping Name:	Not dangerous goods.						
U	N Number	r:							
н	azard Cla	SS:							
						-	lulti rogion (

<u> </u>	
Cayman	

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

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

Information:

Additional Transport

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
125404-04-8	TCN 238		No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
125404-04-8	TCN 238		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and Re	egulation (EC)	
		Section 16. Oth	ner Informatio	n		
Revision Date:		08/23/2017				
Additional Information About		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.				