

Multi-region format

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	Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking					
.1	Product Code:	26153						
	Product Name:	N-Desmethylclozapine						
	Synonyms:	8-chloro-11-(1-piperazinyl)-5H-dibenzo[b,e][1,4	]diazepine; Norclozapine;					
2	Relevant identified uses o	f the substance or mixture and uses advised aga	ainst:					
	Relevant identified uses	: For research use only, not for human or vetering	ary 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 nur		11 (104)011 0000					
•	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
	Emergency Contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
1	Classification of the Subs	tance or Mixture:						
	Acute Toxicity: Inhalation	on, Category 4						
	Acute Toxicity: Oral, Ca	tegory 4						
	Skin Corrosion/Irritation, Category 2							
		i, Category 2						
	Serious Eye Damage/Ey							
	Serious Eye Damage/Ey							
.2	Serious Eye Damage/Ey	e Irritation, Category 2						
2	Serious Eye Damage/Ey Specific Target Organ T	e Irritation, Category 2						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements:	e Irritation, Category 2 oxicity (single exposure), Category 3						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements: GHS Signal Word:	e Irritation, Category 2						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases:	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe	re Irritation, Category 2 oxicity (single exposure), Category 3 Warning						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe H315: Causes skin irritation	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning ed.						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe H315: Causes skin irritatio H319: Causes serious eye	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning ed.						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe H315: Causes skin irritation H319: Causes serious eye H332: Harmful if inhaled.	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning ed. on. e irritation.						
2	Serious Eye Damage/Ey Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe H315: Causes skin irritatio H319: Causes serious eye H332: Harmful if inhaled. H335: May cause respirat	e Irritation, Category 2 oxicity (single exposure), Category 3 Warning ed. on. e irritation.						
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	HIMICAL	010 W	·····			
		-	n persists, get medical advice/			
	P362	+364: Take off conta	aminated clothing and wash it	before reuse.		
	GHS	Storage and Dispo	osal Phrases:			
	Pleas	e refer to Section 7	for Storage and Section 13 for	r Disposal informatio	on.	
2.3	Adverse Human Health Causes serious eye irritat					
	Effects	and Symptoms:	Causes skin irritation.			
			Harmful if inhaled or swallow	ved.		
			Material may be irritating to t	he mucous membra	anes and upper re	spiratory tract.
			May be harmful by skin abso	orption.		
			May cause respiratory syste	m irritation.		
			To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigated.
		Sec	tion 3. Composition	/Information	on Ingredie	nts
	#/	1	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification
RTEC		REACH Registra		Concentration	EC Index No.	GHS Classification
6104	4-71-8	5H-Dibenzo[b,e][1,4		100.0 %	636-421-7	Acute Tox.(O) 4: H302
NA	-	8-chloro-11-(1-piper			NA	Skin Corr. 2: H315
						Eye Damage 2A: H319
						Acute Tox.(I) 4: H332
						STOT (SE) 3: H335 H336
			Section 4. Fi	rst Aid Meas	ures	
4.1	Descri	ption of First Aid				
	Measu	-				
	In Cas	e of Inhalation.	Remove to fresh air. If not br	eathing give artificia	al respiration or gi	ve oxygen by trained personnel.
	In Case of Inhalation: Remove to fresh air. If no Get immediate medical a				a roopiration of gr	
					ator for at loast 1	minutos. Pomovo contaminatod
	In Case of Skin Contact: Immediately wash skin with clothing. Get medical attention					
			-		-	
	In Case of Eye Contact: Hold eyelids apart and flush				water for at least 1	5 minutes. Have eyes examined
			and tested by medical persor			
	In Case	e of Ingestion:	Wash out mouth with water p		, , ,	
				dical attention. Do N	NOT induce vomiti	ng unless directed to do so by
			medical personnel.			
			Section 5. Fire	Fighting Me	asures	
5.1	Suitab	le Extinguishing	Use alcohol-resistant foam,	carbon dioxide, wate	er, or dry chemical	l spray.
	Media:		Use water spray to cool fire-	exposed containers		
		0 0	<b>g</b> A solid water stream may be	inefficient.		
	Media:					
5.2	Flamm	able Properties an				
	Hazaro	ls:				
			No data available.			
	Flash I	Pt:	No data.			
	Explos	ive Limits:	LEL: No data.	UEL: No d	lata.	
	-	nition Pt:	No data.			
5.3	-		s: As in any fire, wear self-cont	ained breathing apr	aratus pressure-d	lemand (NIOSH approved or
			equivalent), and full protectiv		-	
				- ges. to provont of		



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		Section 6. Accidental Release Measures			
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.			
	Protective Equipment and	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	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:				
		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.			
	Secti	on 8. Exposure Controls/Personal Protection			
8.1	Exposure Parameters:				
8.2	Exposure Controls:				
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne			
	(Ventilation etc.):	evels below recommended exposure limits.			
8.2.2	Personal protection equip	nent:			
	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.			
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower			
		Wash thoroughly after handling.			
		No data available.			
	Se	ction 9. Physical and Chemical Properties			
9.1	Information on Basic Physi	cal 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.			
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	Specific Gravity (Water =	1): No c	lata.					
	Solubility in Water:	No d	No data.					
Solubility Notes:			5 mg/ml in a 1:1 solution of DM SO & DMF;	SO:PBS (pł	⊣ 7.2); ~5 mg/	ml in EtOH; ~1	0 mg/ml in	
	Octanol/Water Partition	No d	lata.					
	Coefficient:							
	Autoignition Pt:	No d	lata.					
	Decomposition Temperat	ture: No d	lata.					
	Viscosity:	No c	lata.					
9.2	Other Information							
	Percent Volatile:	No d	lata.					
	Molecular Formula & Wei	i <b>ght:</b> C17	H17CIN4 312.8					
		Sect	ion 10. Stability and	Reactiv	vity			
10.1	Reactivity:	No data ava	ailable.					
10.2	Stability:	Unstable [						
10.3	Stability Note(s):	Stable if sto	red in accordance with informa	tion listed o	on the product	insert.		
	Polymerization:	Will occur [	] Will not occur [ X ]					
10.4	Conditions To Avoid:	No data ava	ailable.					
10.5	Incompatibility - Material	<b>s</b> strong oxidi	zing agents					
	To Avoid:							
10.6	Hazardous	carbon diox	ide					
	Decomposition or	carbon mon						
	Byproducts:	nitrogen oxi	des					
		phosgene						
		Sectio	on 11. Toxicological	Informa	ation			
11.1	Information on	The toxicolo	ogical effects of this product ha	ve not been	thoroughly st	udied.		
Carai	Toxicological Effects:	NTP? No	IARC Monographs? No		aulated2 No			
	nogenicity:				gulated? No			
CAS # Hazardous Co		· ·	,	NTP	IARC	ACGIH	OSHA	
610	4-71-8 5H-Dibenzo[b,e]	1,4]diazepine	e, 8-chloro-11-(1-piperazinyl)-	n.a.	n.a.	n.a.	n.a.	
		Sect	ion 12. Ecological Ir	nformati	ion			
12.1	Toxicity:	Avoid releas	se into the environment.					
		Runoff from fire control or dilution water may cause pollution.						
12.2	Persistence and	No data available.						
	Degradability:							
12.3	Bioaccumulative	No data available.						
	Potential:							
12.4	Mobility in Soil:	No data ava	ailable.					
12.5	Results of PBT and vPvB	No data available.						
	assessment:	<b>N</b> 1 1 <i>2</i>						
12.6	Other adverse effects:	No data ava	allable.					



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		Section 13. Dispo	sal Considera	ations		
<b>13.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.						
		Section 14. Trar	sport Informa	ation		
14.1 LAND	TRANSPORT (US	DOT):				
DOT Prop	er Shipping Name	Not dangerous goods.				
DOT Haza						
UN/NA Nu						
ADR/RID S	Shipping Name:	Not dangerous goods.				
Hazard Cla						
	ANSPORT (ICAO/	IATA):				
	A Shipping Name:	Not dangerous goods.				
Additional Tra		Transport in accordance with le	ocal, state, and fede	ral regulations.		
Information:						
		Section 15. Regu	latory Inform	ation		
EPA SARA (S	uperfund Amendm	nents and Reauthorization Act	-			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
6104-71-8	5H-Dibenzo[b,e][ 8-chloro-11-(1-pi		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	Other US EPA or State Lists		
6104-71-8	5H-Dibenzo[b,e][ 8-chloro-11-(1-pi					
Regulatory Inf Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Information	on		
Revision Date:	:	12/01/2018				
Additional Info	ormation About	No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec use. Users should make their their particular purposes.	ver, we make no wa t to such informatior	rranty of merchanta n, and we assume r	ability or any other warrant no liability resulting from its	