

Revision: 08/23/2018 Supersedes Revision: 02/06/2015

					2015			
	according	to Regulation (EC) No. 1907/2006 as a	imended by (EC) No. 2015/8	30 and US OSHA HCS	2013			
	Section 1. Ic	dentification of the Substar	nce/Mixture and of t	he Company/Ur	ndertaking			
.1 Pro	oduct Code:	9000705						
Pro	oduct Name:	Naltrindole (hydrochloride	e)					
Syr	nonyms:	(4bS,8R,8aS,14bR)-7-(cy	vclopropylmethyl)-5,6	,7,8,14,14b-hexa	ahydro-4,8-methanobenzofuro			
	-a]pyrido[4,3-b]carbazole-1,8a(9H)-diol, monohydrochloride;							
.2 Rel	evant identified uses of	the substance or mixture a	and uses advised ag	jainst:				
R	Relevant identified uses: For research use only, not for human or veterinary use.							
.3 Det	Details of the Supplier of the Safety Data Sheet:							
C	ompany Name:	pany						
		1180 E. Ellsworth Rd.						
		Ann Arbor, MI 48108						
	leb site address:	www.caymanchem.com						
	formation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
	ergency telephone num							
E	mergency Contact:	CHEMTREC Within USA		•	0)424-9300			
		CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887			
		Section 2. Haz	zards Identific	ation				
.1 Cla	ssification of the Substa	ance or Mixture:						
.2 Lab	pel Elements:	Label Elements:						
G	HS Signal Word:	None						
	HS Signal Word: HS Hazard Phrases:	None						
G	GHS Hazard Phrases:		stance or mixture is r	not classifiable ac	cording to GHS.			
G B	GHS Hazard Phrases: Based on evaluation of cur	rently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.			
G B G	GHS Hazard Phrases: Based on evaluation of cur GHS Precaution Phrases	rently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.			
G B G N	GHS Hazard Phrases: Based on evaluation of cur GHS Precaution Phrases Io phrases apply.	rently available data this sub:	stance or mixture is r	not classifiable ac	cording to GHS.			
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Multi-region format



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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	A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an Hazards:	dNo 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	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.
		hgTransfer 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:	

Multi-region format



		Supersedes Revision. 02/00/2013
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 equipr	nent:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:L	.ab 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 shower.
	١	Nash thoroughly after handling.
	1	No data available.
	Se	ction 9. Physical and Chemical Properties
9.1		cal and Chemical Properties
5.1	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 i	
	Hg):	
	Vapor Density (vs. Air = 1):	No data.
	Specific Gravity (Water = 1)	
	Solubility in Water:	No data.
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of EtOH:PBS (pH 7.2); ~10 mg/ml in EtOH, ~5 mg/ml in DMSO
	oordonity Notes.	& DMF;
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	No data.
	Decomposition Temperatur	
	Viscosity:	No data.
9.2	Other Information	
5.2	Percent Volatile:	No data.
	Molecular Formula & Weigh	
1		



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111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 Toxicity: Avoid release 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: Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment:	_							
10.2 Stability: Unstable [] Stable [X] 10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials strong oxidizing agents To Avoid: Incompatibility - Materials strong oxidizing agents To Avoid: 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: Nydrogen chloride gas nitrogen oxides Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Nattrindole (hydrochloride) - Toxicity Data: Intraperitoneal TDLO (rat): 1 mg/kg; Suburd (hydrochloride) - Toxicity Data: Intraperitoneal TDLO (rat): 1 mg/kg; Subur TDLO (rat): 10 mg/kg; Chronic Toxicological Nattrindole (hydrochloride) - Investigated as a drug. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presen See actual entry in RTECS for complete information. Naltrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH 111469-81-9 Nattrindole (hydrochlori			Section 10. Stability and	Reactiv	rity			
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 10.4 Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: 10.5 Incompatibility - Materials strong oxidizing agents To Avoid: Carbon dioxide Decomposition or carbon monoxide Byproducts: hydrogen chloride gas nitrogen oxides Section 11. Toxicological Information 11.1 Information on Toxicological Effects: Nattrindole (hydrochloride) - Toxicity Data: Intraperitoneal TDLO (rat): 1 mg/kg; Subcu TDLO (rat): 10 mg/kg; Chronic Toxicological Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presen See actual entry in RTECS for complete information. Nattrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name) NTP IARC Accion 12. Ecological Information. Nattrindole (hydrochloride) - Toxic tip data: is presen See actual entry in RTECS for complete information. Nattrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name)	.1 Reactiv	vity:	No data available.					
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Byproducts: hydrogen chloride gas nitrogen oxides Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Naltrindole (hydrochloride) - Toxicity Data: Intraperitoneal TDLO (rat): 1 mg/kg; Subcu TDLO (rat): 10 mg/kg; Chronic Toxicological Naltrindole (hydrochloride) - Investigated as a drug. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presen See actual entry in RTECS for complete information. Naltrindole (hydrochloride) NTP IARC ACGIH I 111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. i Section 12. Ecological Information. Naltrindole (hydrochloride) NTP IARC ACGIH I 111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. i 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. i i 12.2 Persistence and Degradability: No data available. i i i 12.3 Bioaccumulative Potential: No data available. i i i i <tr< td=""><td>.6 Hazard</td><td>lous</td><td colspan="6" rowspan="2"></td></tr<>	.6 Hazard	lous						
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TDLO (rat): 10 mg/kg; Chronic Toxicological Naltrindole (hydrochloride) - Investigated as a drug. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is present See actual entry in RTECS for complete information. Naltrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH Intervention 111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. n.a. Intervention Section 12. Ecological Information Itervention Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. Itervention Itervention Itervention Itervention Section 12. Ecological Information Itervention	.1 Informa	ation on	•		0.1			
Chronic Toxicological Naltrindole (hydrochloride) - Investigated as a drug. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is present See actual entry in RTECS for complete information. Naltrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH Image: Component information. Naltrindole (hydrochloride) n.a. n.a. n.a. n.a. Image: Component information. Intervention. Interventintervention. Intervention. Interventinterve	Toxico	logical Effects:		Intraperiton	eal TDLO (ra	t): 1 mg/kg; Su	bcutaneous	
Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is present See actual entry in RTECS for complete information. Naltrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH Intrindole (hydrochloride) 111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. No data available. Degradability: 11.3 Bioaccumulative No data available. Void release into the environment. Runoff from fire control or dilution water may cause pollution. No data available. 12.4 Mobility in Soil: No data available. Void release into the environment. Runoff from fire control or dilution water may cause pollution. Image: Section 12. 12.4 Mobility in Soil: No data available. Image: Section 12. Image: Section 12. 12.5 Results of PBT and vPvB No data available. Image: Section 12. Image: Section 12. 12.5								
See actual entry in RTECS for complete information. Naltrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH 111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. n.a. Image: No. Section 12. Ecological Information Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.1 Toxicity: Avoid release 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: No data available. 12.4 Mobility in Soil: No data available. assessment: No data available.		-		-				
Naltrindole (hydrochloride) RTECS Number: PB9092200 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH I 111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. n.a. n.a. i Section 12. Ecological Information Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: No data available. Petential: 12.3 Bioaccumulative No data available. Potential: No data available. Image: Colspan="3">Section 12. Ecological Information 12.4 Mobility in Soil: No data available. assessment: No data available. Image: Colspan="3">Section 12. Colspan="3">Section 20. Section 12. Section 20. Section	Effects	:			tances (RTE	CS) data is pre	esented here.	
CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH 111469-81-9 Naltrindole (hydrochloride) n.a. n.a. n.a. n.a. n.a. n.a. i Section 12. Ecological Information Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: No data available. 12.3 Bioaccumulative No data available. Potential: No data available. Image: Colspan="4">Section 12. Ecological Information 12.4 Mobility in Soil: No data available. Image: Colspan="4">Section 12. Ecological Information 12.5 Results of PBT and vPvB No data available. Image: Colspan="4">Section 12. Ecological Information					20			
111469-81-9 Naltrindole (hydrochloride) n.a. n.a.<		- i		1				
Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. Degradability: 12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB Avoid release into the environment. No data available.				NTP	IARC	ACGIH	OSHA	
12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB assessment: No data available.	11469-81-9	Naltrindole (hydro	ochloride)	n.a.	n.a.	n.a.	n.a.	
12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available.			Section 12. Ecological Ir	nformatio	on			
12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: Volta available.	.1 Toxicit	y:	Avoid release into the environment.					
Degradability: 12.3 Bioaccumulative potential: 12.4 Mobility in Soil: 12.5 Results of PBT and vPvB No data available. assessment:			Runoff from fire control or dilution water ma	ay cause pol	llution.			
12.3 Bioaccumulative No data available. Potential: Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available.	.2 Persist	tence and	No data available.					
Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available.	Degrad	lability:						
12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: Addition of the second seco	.3 Bioacc	umulative	No data available.					
12.5 Results of PBT and vPvB No data available. assessment:	Potenti	ial:						
assessment:	.4 Mobilit	y in Soil:	No data available.					
assessment:		-	No data available.					
12.6 Other adverse offecter No date evolution		sment:						
12.6 Other adverse effects: No data available.	u000000	adverse effects:						
Section 13. Disposal Considerations			No data available.					
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.				sideratio	ons			
	.6 Other a		Section 13. Disposal Con					



Revision: 08/23/2018 Supersedes Revision: 02/06/2015

Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1 DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: LAND TRANSPORT (European ADR/RID): 14.1 ADR/RID Shipping Name: Not dangerous goods. **UN Number:** Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) Naltrindole (hydrochloride) 111469-81-9 No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists 111469-81-9 Naltrindole (hydrochloride) CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) **Regulatory Information** No.1272/2008. Statement: Section 16. Other Information 08/23/2018 **Revision Date:** 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.

Multi-region format