

SAFETY DATA SHEET O-Desmethyl-cis-tramadol-d6 (hydrochloride)

Page: 1 of 7

Caj	man	(CRM)	Revision: 05/07/	/2019
	according to	Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/8.	30 and US OSHA HCS 2015	
	Section 1. Ide	ntification of the Substance/Mixture and of t	he Company/Undertaking	
1.1	Product Code: Product Name: Synonyms:	20593 O-Desmethyl-cis-tramadol-d6 (hydrochloride) rel-3-[(1R,2R)-2-[(dimethyl-d3 amino)methyl]- O-Desmethyltramadol-d6;		hloride
1.2	Relevant identified uses of the Relevant identified uses:	ne substance or mixture and uses advised ag For research use only, not for human or veteri	-	
1.3	Details of the Supplier of the Company Name:	Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108		
	Web site address: Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335	
1.4	Emergency telephone numb Emergency Contact:	er: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887	
		Section 2. Hazards Identific	ation	
2.2	Acute Toxicity: Skin, Category Specific Target Organ Tox Label Elements:	jory 3 city (single exposure), Category 1		
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu H301: Toxic if swallowed. H311: Toxic in contact with s H331: Toxic if inhaled. H370: Causes damage to or GHS Precaution Phrases: P210: Keep away from {heat P260: Do not breathe {dust/f	kin. gans. /sparks/open flames/hot surfaces} No smoking	g.	
	GHS Response Phrases: P301+310: IF SWALLOWED P302+352: IF ON SKIN: Wa P303+361+353: IF ON SKIN water/shower.	hly after handling. es/protective clothing/eye protection/face protect e: Immediately P311: Call a POISON CENTER of sh with plenty of soap and water. (or hair): Remove/take off immediately all conta	or doctor/physician. aminated clothing. Rinse skin with	

SAFETY DATA SHEET O-Desmethyl-cis-tramadol-d6 (hydrochloride) (CRM) P308+311: If exposed of concerned: Call a {POISON CENTER/Doctor/...}.

Revision: 05/07/2019

Multi-region format

2.3	P321: P330: P361- GHS 3 Please Advers	Specific treatment Rinse mouth. +364: Take off imme Storage and Dispo e refer to Section 7 ce Human Health and Symptoms:	for Storage and Section 13 for Causes damage to organs { Material may be irritating to May be fatal or cause blindr May cause eye, skin, or res Toxic if inhaled, swallowed,	ning and wash it be or Disposal informat (eyes). the mucous membroness if swallowed. piratory system irrit or in contact with s ue, the toxicological	fore reuse. tion. ranes and upper re ation. kin. properties have no	t been thoroughly investigated.
CAS RTEC		1	oonents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification
	393-87-6		madol-d6 (hydrochloride)	0.01 -0.1 %	NA NA	Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Aquatic (A) 2: H401 Aquatic (C) 2: H411
	-56-1 00000	Methanol 01-2119392409-28		99.9 -99.99 %	200-659-6 603-001-00-X	Flam. Liq. 2: H225 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 3: H331 STOT (SE) 1: H370
		•	Section 4. F	irst Aid Meas	sures	·
4.1	Measur In Case In Case In Case	e of Inhalation: e of Skin Contact: e of Eye Contact: e of Ingestion: ant Symptoms and	Get immediate medical atten Immediately wash skin with clothing. Get medical attenti Hold eyelids apart and flush and tested by medical perso Wash out mouth with water unconscious person. Get me medical personnel.	ntion. soap and plenty of on if symptoms occ eyes with plenty of onnel. provided person is edical attention. Do confusion, dermatitis nage (blindness), n	water for at least 15 sur. Wash clothing b water for at least 1 conscious. Never g NOT induce vomiti s, headache, drows ausea, unconscious	5 minutes. Have eyes examined ive anything by mouth to an ng unless directed to do so by iness, dizziness, gastrointestinal sness, vomiting, visual



SAFETY DATA SHEET O-Desmethyl-cis-tramadol-d6 (hydrochloride)

(CRM)

		Section 5. Fire	e 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.					
		g A solid water stream may be	e inefficient.				
	Media:						
5.2	-	-	m explosive mixtures at temperatures at or abo	ve the flashpoint.			
	Hazards:	Container explosion may or Emits toxic fumes under fire					
		Sensitive to static discharge					
		-	ce of ignition and flash back.				
		No data available.	C C				
	Flash Pt:	11.00 C Method Used: C	Closed Cup				
	Explosive Limits:	LEL: 6.0% at 25.0 0	C UEL: 36.0% at 25.0 C				
	Autoignition Pt:	385.00 C					
5.3	Fire Fighting Instruction	s: As in any fire, wear self-con	tained breathing apparatus pressure-demand (NIOSH approved or			
		equivalent), and full protecti	ve gear to prevent contact with skin and eyes.				
		Note: Flammable as diluted	in methanol.				
		Section 6. Accide	ntal Release Measures				
6.1	Protective Precautions,	Avoid breathing vapors and	provide adequate ventilation.				
	Protective Equipment an	d As conditions warrant, wea	r a NIOSH approved self-contained breathing a	pparatus, or respirator,			
	Emergency Procedures:	and appropriate personal p	rotection (rubber boots, safety goggles, and he	avy rubber gloves).			
6.2	Environmental	Take steps to avoid release	e into the environment, if safe to do so.				
	Precautions:						
6.3		r Contain spill and collect, as					
		ngTransfer to a chemical was	te container for disposal in accordance with loc	al regulations.			
	Up:						
		Section 7. Ha	ndling and Storage				
7.1	Precautions To Be Taker	n Avoid breathing dust/fume/g	gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.					
		Keep away from sources of ignition.					
		Take precautionary measur	с с				
7.2		 Keep away from heat, spark Keep container tightly close 					
	in Storing:	Store in accordance with information listed on the product insert.					
-							
		tion 8. Exposure C	controls/Personal Protection				
8.1	Exposure Parameters: Chemical Name	Iuriadiation	Recommended Experies Limits	Netationa			
CAS #			Recommended Exposure Limits	Notations			
67-56	-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 Britain EH40	PEL: 200 ppm TWA: 266 mg/m3 (200 ppm)	Skin Absorption			
			STEL: 333 mg/m3 (250 ppm)				

Multi-region format



SAFETY DATA SHEET O-Desmethyl-cis-tramadol-d6 (hydrochloride) (CRM)

Exposure Controls:							
1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control							
(Ventilation etc.): leve	els below recommended exposure limits.						
Personal protection equipmer	nt:						
Eye Protection: Safety glasses							
Protective Gloves: Con	Compatible chemical-resistant gloves						
Other Protective Clothing:Lab	coat						
Respiratory Equipment NIO	SH approved respirator, as conditions warrant.						
(Specify Type):							
Work/Hygienic/Maintenan Do	Work/Hygienic/Maintenan Do not take internally.						
Was	sh thoroughly after handling.						
No	data available.						
Saati	on Q. Dhysical and Chamical Properties						
	on 9. Physical and Chemical Properties						
-	-						
•	[]Gas [X]Liquid []Solid						
Appearance and Odor:	A 100 µg/ml or 1 mg/ml solution in methanol						
pH:	No data.						
Melting Point:	No data.						
-	No data.						
	11.00 C Method Used: Closed Cup						
Evaporation Rate:	No data.						
Flammability (solid, gas):	No data available.						
-	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):							
Vapor Density (vs. Air = 1):	No data.						
Specific Gravity (Water = 1):	No data.						
Solubility in Water:	No data.						
Octanol/Water Partition	No data.						
Coefficient:							
Autoignition Pt:	385.00 C						
Decomposition Temperature:	No data.						
Viscosity:	No data.						
Other Information							
Percent Volatile:	No data.						
Molecular Formula & Weight:	C15H17D6NO2 • HCI 291.8						
	Engineering ControlsUse(Ventilation etc.):levelPersonal protection equipmerEye Protection:SafeProtective Gloves:ConOther Protective Clothing:LabRespiratory EquipmentNIO(Specify Type):Work/Hygienic/MaintenanWork/Hygienic/MaintenanDo facce Practices:FacWark/Hygienic/MaintenanDo facce Practices:FacWarkNo facDefinition on Basic PhysicalSectifacPhysical States:Appearance and Odor:pH:Melting Point:Boiling Point:Flash Pt:Evaporation Rate:Flammability (solid, gas):Explosive Limits:Vapor Pressure (vs. Air or mmHg):Vapor Density (vs. Air = 1):Specific Gravity (Water = 1):Solubility in Water:Octanol/Water PartitionCoefficient:Autoignition Pt:Decomposition Temperature:Viscosity:Other InformationPercent Volatile:Vater						



SAFETY DATA SHEET O-Desmethyl-cis-tramadol-d6 (hydrochloride) (CRM)

Revision: 05/07/2019

			Section 10. Stability	anu Reacti	vity				
10.1	Reactivity: No data available.								
10.2	Stability								
10.3 Stability Note(s):			Stable if stored in accordance with information listed on the product insert.						
	Polyme	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ons To Avoid:							
10.5	Incompa	atibility - Materials							
	To Avoid:		acid anhydrides						
			acid chlorides						
			alkali metals						
			oxidizing agents						
			reducing agents						
10.6	Hazardo	us	carbon dioxide						
	-	osition or	carbon monoxide						
	Byprodu	icts:							
			Section 11. Toxicolog	ical Informa	ation				
11.1	Informa	tion on	The toxicological effects of this prod	uct have not beer	n thoroughly st	udied.			
	Toxicological Effects:		Methanol - Toxicity Data: Oral LD50	Methanol - Toxicity Data: Oral LD50 (rat): 5,600 mg/kg; Oral LD50 (rabbit): 14,200 mg/kg; Oral					
	Toxicolo	gical Litecis.	LDLO (man): 6422 mg/kg; Intraperitoneal LD50 (mouse): 10765 mg/kg;						
	Toxicolo		LDLO (man): 6422 mg/kg; Intraperit				0 0,		
	Toxicolo		LDLO (man): 6422 mg/kg; Intraperit Inhalation LC50 (rat): 64,000 ppm (4	oneal LD50 (mou	se): 10765 mg	/kg;			
	Toxicolo			oneal LD50 (mou h); Inhalation LC	se): 10765 mg 50 (mouse): 6 ²	/kg;			
	Toxicolo		Inhalation LC50 (rat): 64,000 ppm (4	oneal LD50 (mou h); Inhalation LC human): 143 mg/l	se): 10765 mg 50 (mouse): 6 ⁻ kg;	/kg; I,100 ppm (134	4 m); Skin LD		
	Toxicolo		Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (h); Inhalation LC h); Inhalation LC human): 143 mg/l hit): 20 mg (24h) r	se): 10765 mg 50 (mouse): 6 ⁻ kg;	/kg; I,100 ppm (134	4 m); Skin LD		
		Toxicological	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb	oneal LD50 (mou h); Inhalation LC human): 143 mg/l it): 20 mg (24h) r re;	se): 10765 mg 50 (mouse): 6 kg; noderate; Eye	/kg; I,100 ppm (134 s (rabbit): 40 m	4 m); Skin LD g moderate;		
		-	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera	oneal LD50 (mou h); Inhalation LC human): 143 mg/l hit): 20 mg (24h) r hutagen, primary	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector,	4 m); Skin LD g moderate; and tumorige		
	Chronic	-	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m	oneal LD50 (mou h); Inhalation LC human): 143 mg/l it): 20 mg (24h) r ite; hutagen, primary of Chemical Sub	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector,	4 m); Skin LD g moderate; and tumorige		
	Chronic	-	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects	oneal LD50 (mou h); Inhalation LC human): 143 mg/l hit): 20 mg (24h) r e; hutagen, primary of Chemical Sub lete information.	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector,	4 m); Skin LD g moderate; and tumorige		
Carci	Chronic	Toxicological	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp	oneal LD50 (mou h); Inhalation LC human): 143 mg/l it): 20 mg (24h) r ie; hutagen, primary of Chemical Sub lete information.	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector,	4 m); Skin LD g moderate; and tumorige		
Carcin	Chronic Effects: nogenicity	Toxicological	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400	oneal LD50 (mou h); Inhalation LC human): 143 mg/l it): 20 mg (24h) r ie; hutagen, primary of Chemical Sub lete information.	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector,	4 m); Skin LD g moderate; and tumorige		
CAS	Chronic Effects: nogenicity	Toxicological /: Hazardous Com	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs?	oneal LD50 (mou h); Inhalation LC human): 143 mg/l it): 20 mg (24h) r it): 20 mg (24h) r it; it): 20 mg (24h) r it]:	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE egulated? No	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD g moderate; and tumorige sented here.		
CAS 1261:	Chronic Effects: nogenicity #	Toxicological /: Hazardous Com	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs?	h); Inhalation LC human): 143 mg/l it): 20 mg (24h) r it): 20 mg (24h)	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD g moderate; and tumorige sented here.		
CAS 1261:	Chronic Effects: nogenicity # 393-87-6	Toxicological /: Hazardous Com O-Desmethyl-cis-	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride)	oneal LD50 (mou h); Inhalation LC numan): 143 mg/l it): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a.	se): 10765 mg 50 (mouse): 6 kg; moderate; Eye: irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 1261: 67	Chronic Effects: nogenicity # 393-87-6 7-56-1	Toxicological /: Hazardous Com O-Desmethyl-cis- Methanol	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs?	oneal LD50 (mou h); Inhalation LC numan): 143 mg/l it): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a.	se): 10765 mg 50 (mouse): 6 kg; moderate; Eye: irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 1261:	Chronic Effects: nogenicity # 393-87-6	Toxicological /: Hazardous Com O-Desmethyl-cis- Methanol	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment.	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 1261: 67 12.1	Chronic Effects: nogenicity # 393-87-6 7-56-1 Toxicity	Toxicological /: Hazardous Com O-Desmethyl-cis- Methanol	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution w	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 1261: 67	Chronic Effects: nogenicity # 393-87-6 7-56-1 Toxicity Persiste	Toxicological	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment.	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD9 g moderate; and tumorige sented here.		
CAS 1261: 67 12.1 12.2	Chronic Effects: nogenicity # 393-87-6 7-56-1 Toxicity Persiste Degrada	Toxicological /: Hazardous Com O-Desmethyl-cis- Methanol : nce and ubility:	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I Pponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution w No data available.	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 1261: 67 12.1	Chronic Effects: nogenicity # 393-87-6 7-56-1 Toxicity Persiste Degrada Bioaccu	Toxicological	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution w	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 12613 67 12.1 12.2 12.3	Chronic Effects: nogenicity # 393-87-6 7-56-1 Toxicity Persiste Degrada Bioaccu Potentia	Toxicological /: Hazardous Com O-Desmethyl-cis- Methanol : nce and ubility: mulative I:	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available.	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 1261: 67 12.1 12.2 12.3 12.4	Chronic Effects: nogenicity # 393-87-6 7-56-1 Toxicity Persiste Degrada Bioaccu Potentia Mobility	Toxicological /: Hazardous Com O-Desmethyl-cis- Methanol : nce and ibility: mulative I: in Soil:	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available.	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		
CAS 12613 67 12.1 12.2 12.3	Chronic Effects: nogenicity # 393-87-6 7-56-1 Toxicity Persiste Degrada Bioaccu Potentia Mobility	Toxicological /: Hazardous Comp O-Desmethyl-cis- Methanol : nce and addibility: mulative I: in Soil: of PBT and vPvB	Inhalation LC50 (rat): 64,000 ppm (4 (rabbit): 15,800 mg/kg; Oral LDLO (Methanol - Irritation Data: Skin (rabb Eyes (rabbit): 100 mg (24h) modera Methanol - Investigated as a drug, m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methanol RTECS Number: PC1400 NTP? No IARC Monographs? I ponents (Chemical Name) -tramadol-d6 (hydrochloride) Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available.	oneal LD50 (mou h); Inhalation LC human): 143 mg/l iit): 20 mg (24h) r ie; nutagen, primary of Chemical Sub lete information. 000 No OSHA Ro NTP n.a. n.a. al Informat	se): 10765 mg 50 (mouse): 6 kg; moderate; Eyes irritant, reprodu ostances (RTE) egulated? No IARC n.a. n.a. n.a.	/kg; I,100 ppm (134 s (rabbit): 40 m uctive effector, CS) data is pre	4 m); Skin LD4 g moderate; and tumorige sented here.		

ayman		SAFE O-Desmethyl-cis-t	TY DATA SHE ramadol-d6 (hy (CRM)		Page: 6 of Revision: 05/07/2019	
		Section 13. Disp	osal Considera	itions		
13.1 Waste I	Disposal Method:	Dispose in accordance with	local, state, and federal	regulations.		
		Section 14. Tra	ansport Informa	ation		
14.1 LAND	FRANSPORT (US E		•			
DOT Prope	er Shipping Name:	Methanol Solution				
DOT Haza			MABLE LIQUID, POISC	ON		
UN/NA Nu	mber:	UN1230	Packing Gro	oup:	Ш	
		FLORMMOBELE LIQUID 3				
	FRANSPORT (Euro					
	Shipping Name:	Methanol Solution				
UN Numbe		1230	Packing Gro	oup:	II	
Hazard Cla	ISS:	3 (6.1) - FLAMMABLE L POISON	3 (6.1) - FLAMMABLE LIQUID,			
14.3 AIR TR	ANSPORT (ICAO/I					
	Shipping Name:	Methanol Solution				
UN Numbe		1230	Packing Gro	oup:	Ш	
Hazard Cla	ass:	3 (6.1) - FLAMMABLE LIQUID, IATA Classification: POISON			3, 6.1	
Additional Tra	nsport	Transport in accordance wit	h local, state, and feder	al regulations.		
Information:		When sold in quantities of le	ess than or equal to 1 m	L, or 1 g, with an E	xcepted Quantity Code of	
		E1, E2, E4, or E5, this item		-	•	
		Therefore packaging does n			s/Excepted Quantity.	
		Section 15. Rec	gulatory Informa	ation		
-	1	ents and Reauthorization A	1			
CAS # 1261393-87-6		ponents (Chemical Name) tramadol-d6 (hydrochloride)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
67-56-1	Methanol		No	Yes 5000 LB	Yes	
CAS # Hazardous Components (Chemical Name)				Other US EPA or State Lists		
1261393-87-6 O-Desmethyl-cis-		tramadol-d6 (hydrochloride) CAA HAP,ODC: No; CWA NPDES: No; PROP.65: No				
67-56-1 Methanol				CAA HAP,ODC: HAP: VHAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox.		
<u> </u>	ļ					

Multi-region format



SAFETY DATA SHEET O-Desmethyl-cis-tramadol-d6 (hydrochloride)

(CRM)

Page: 7 of 7

Revision: 05/07/2019

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) Statement: No.1272/2008. Section 16. Other Information Revision Date: 05/07/2019 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.