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#### SAFETY DATA SHEET

Sect	ion 1: Identification	
Material Name	Tolterodine Tartrate ER Capsules 2mg and 4mg	
Relevant Identified Uses of the Substan Intended Use:	ce or Mixture and Uses Advised Against Pharmaceutical product used for overactive bladder	
Manufacturer	Hetero Labs Limited Unit III	
	22-110, Part-II, IDA, Jeedimetla, Hyderabad-500 055, Telangana, India.	
Distributor	Camber Pharmaceuticals, Inc., Piscataway, NJ 08854	
Section 2	: Hazard(s) Identification	
Classification of the Substance or Mixte	lre	
GHS - Classification		
Reproductive Toxicity: Categor	y 2	
EU Classification:	loopified	
EU Indication of danger: Not c Label Elements	lassilieu	
Signal word	Warning	
Hazard statement	H361d - Suspected of damaging the unborn child	
Precautionary statement:	P202 - Do not handle until all safety precautions have been read and understood P281 - Use personal protective equipment as required P308 + P313 - IF exposed or concerned: Get medical attention/advice	
	P405 - Store locked up	
Other Hazards Australian Hazard Classification (NOHSC):	P501 - Dispose of contents/container in accordance with all local and national regulations No data available Hazardous Substance. Non-Dangerous Goods.	
Note:	This document has been prepared in accordance w standards for workplace safety, which requires t inclusion of all known hazards of the product or ingredients regardless of the potential risk. T precautionary statements and warning included may r apply in all cases. Your needs may vary depending up the potential for exposure in your workplace.	
Section 3: Compo	sition/Information on Ingredients	
Hazardous		
Ingredient CAS Number	EU EU GHS EINECS/ELINC Classificatio % S List n	



Sucrose	57-50-1	200-334-9	Not Listed	Not Listed	*
Starch	9005-25-8	232-679-6	Not Listed	Not Listed	*
Tolterodine L- Tartrate	124937-52-6	Not Listed	Repr. Cat. 3;R63 N;R51/53	Repr. 2 (H361d) Aquatic Acute 2 (H401) Aquatic Chronic 2 2(H411)	2
Propylene glycol	57-55-6	200-338-0	Not Listed	Not Listed	*
Titanium dioxide	13463-67-7	236-675-5	Not Listed	Not Listed	*
Oleic acid	112-80-1	204-007-1	Not Listed	Not Listed	*
Hydroxypropyl methylcellulose	9004-65-3	Not Listed	Not Listed	Not Listed	*
Ethylcellulose	9004-57-3	Not Listed	Not Listed	Not Listed	*
Medium Chain Fatty Acid Triglyceride	Unassigned	Not Listed	Not Listed	Not Listed	*
Ferric oxide yellow Shellac Simethicone FD&C Blue No. 2 Gelatin	51274-00-1 9000-59-3 8050-81-5 860-22-0 9000-70-8	257-098-5 232-549-9 Not Listed 212-728-8 232-554-6	Not Listed Not Listed Not Listed Not Listed Not Listed	Not Listed Not Listed Not Listed Not Listed Not Listed	* * * *
Additional Information:	workplace safety. In accordance with	ated as hazardous h 29 CFR 1910.1200 en withheld as a tra	), the exact perce		
Section 4: First-Aid Measures					
Description of First A	Aid Measures				
Inhalation		Remove to fresh attention immedia		ent at rest. Seek	medical
Eye Contact		Flush eyes with occurs or persists	water for at least		rritation
Skin Contact		Wash skin with persists, get medi		. If irritation oc	curs or
Ingestion		Never give anyth Wash out mouth directed by med immediately.	with water. Do no	t induce vomiting	unless
Most Important Symp symptoms and effect		Both Acute and D For information exposure, See S Section 11 - Toxic	on potential sig ection 2 – Haza	rds Identification	
Medical Conditions None known   Aggravated by Exposure:					



Indication of the immediate medical attention and special treatment needed Notes to Physician: None			
Section 5	: Fire-Fighting Measures		
Extinguishing Media:	Extinguish fires with CO2, extinguishing powder, foam, or		
Special Hazards Arising from the Subst Hazardous Combustion Products: Fire / Explosion Hazards: Advice for Fire-Fighters During all firefighting activities, wear breathing apparatus.	water. <b>cance or Mixture</b> Emits toxic fumes of carbon monoxide and nitrogen oxide. Not applicable appropriate protective equipment, including self-contained		
Section 6: A	ccidental Release Measures		
Section 8). Minimize exposure. Environmental Precautions Place waste in an appropriately labe avoid environmental release.	build wear appropriate personal protective equipment (see led, sealed container for disposal. Care should be taken to		
Methods and materials for containment Measures for Cleaning / Collecting: Additional Consideration for Large Spills:	and cleaning up Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of dry solids. Clean spill area thoroughly. Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.		
Section	7: Handling and Storage		
Precautions for safe handling Conditions for safe storage, including a			
Storage Conditions: Specific end use(s):	Store as directed by product packaging. Pharmaceutical drug product		
Section 8: Exposi	Section 8: Exposure Controls/Personal Protection		
Control Parameters			



Refer to available public information for specific member state Occupational Exposure Limits.		
Sucrose		
ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>	
Australia TWA	10 mg/m <sup>3</sup>	
Belgium OEL - TWA	10 mg/m <sup>3</sup>	
Bulgaria OEL - TWA	10.0 mg/m <sup>3</sup>	
Estonia OEL - TWA	10 mg/m <sup>3</sup>	
France OEL - TWA	10 mg/m <sup>3</sup>	
Ireland OEL - TWAs	10 mg/m <sup>3</sup>	
Latvia OEL - TWA	5 mg/m <sup>3</sup>	
Lithuania OEL - TWA	10 mg/m <sup>3</sup>	
OSHA - Final PELS - TWAs:	15 mg/m <sup>3</sup>	
Portugal OEL - TWA	10 mg/m <sup>3</sup>	
Slovakia OEL - TWA	6 mg/m <sup>3</sup>	
Spain OEL - TWA	10 mg/m <sup>3</sup>	
•	To mg/m	
Starch	10	
ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>	
Australia TWA	10 mg/m <sup>3</sup>	
Belgium OEL - TWA	10 mg/m <sup>3</sup>	
Bulgaria OEL - TWA	10.0 mg/m <sup>3</sup>	
Czech Republic OEL - TWA	4.0 mg/m <sup>3</sup>	
Greece OEL - TWA	10 mg/m <sup>3</sup>	
	5 mg/m <sup>3</sup>	
Ireland OEL - TWAs	10 mg/m <sup>3</sup>	
	4 mg/m <sup>3</sup>	
OSHA - Final PELS - TWAs:	15 mg/m <sup>3</sup>	
Portugal OEL - TWA	10 mg/m <sup>3</sup>	
Slovakia OEL - TWA	4 mg/m <sup>3</sup>	
Spain OEL - TWA	10 mg/m <sup>3</sup>	
Switzerland OEL -TWAs	3 mg/m <sup>3</sup>	
Tolterodine L-Tartrate Pfizer OEL TWA-8 Hr	25µg/m <sup>3</sup>	
Propylene glycol		
Australia TWA	150 ppm	
	474 mg/m <sup>3</sup>	
	10 mg/m <sup>3</sup>	
Ireland OEL - TWAs	150 ppm	
	470 mg/m <sup>3</sup>	
	10 mg/m <sup>3</sup>	
Latvia OEL - TWA	7 mg/m <sup>3</sup>	
Latvia OEL - TWA Lithuania OEL - TWA	7 mg/m <sup>3</sup>	
	/ mg/m	
Titanium dioxide		
ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>	
ACGIH OELs - Notice of Intended	Listed	
Changes		
Australia TWA	10mg/m <sup>3</sup>	
Austria OEL - MAKs	5mg/m <sup>3</sup>	
Belgium OEL - TWA	10mg/m <sup>3</sup>	
Bulgaria OEL - TWA	10.0mg/m <sup>3</sup>	
Denmark OEL - TWA	6mg/m <sup>3</sup>	
	ong/m	



Estonia OEL - TWA	5mg/m <sup>3</sup>
France OEL - TWA	10mg/m <sup>3</sup>
Greece OEL - TWA	10mg/m <sup>3</sup>
	5 mg/m <sup>3</sup>
Ireland OEL - TWAs	10mg/m <sup>3</sup>
	4 mg/m <sup>3</sup>
Latvia OEL - TWA	10mg/m <sup>3</sup>
Lithuania OEL - TWA	5mg/m <sup>3</sup>
OSHA - Final PELS - TWAs:	15mg/m <sup>3</sup>
Poland OEL - TWA	10.0mg/m <sup>3</sup>
Portugal OEL - TWA	10mg/m <sup>3</sup>
Romania OEL - TWA	10mg/m <sup>3</sup>
Russia OEL - TWA	10mg/m <sup>3</sup>
Spain OEL - TWA	10mg/m <sup>3</sup>
Sweden OEL - TWAs	5 mg/m <sup>3</sup>
Switzerland OEL -TWAs	3 mg/m <sup>3</sup>
Vietnam OEL - TWAs	6 mg/m <sup>3</sup>
	5mg/m <sup>3</sup>
Oleic acid	
	10.0mg/m <sup>3</sup>
Bulgaria OEL - TWA	10.omg/m
Simethicone	OEB 1 (control exposure to the range of 1000ug/m <sup>3</sup> to
Pfizer Occupational	3000ug/m <sup>3</sup> )
Exposure	0000dg/m
Band (OEB):	
Analytical Method:	Analytical method available for tolterodine. Contact Pfizer Inc for
· ······	further information.
Exposure Controls	
Engineering Controls:	Engineering controls should be used as the primary means to
5 . 5	control exposures. General room ventilation is adequate unless
	the process generates dust, mist or fumes. Keep airborne
	contamination levels below the exposure limits listed above in
	this section.
Personal Protective	Refer to applicable national standards and regulations in the
Equipment:	selection and use of personal protective equipment (PPE).
Hands:	Impervious gloves are recommended if skin contact with drug
	product is possible and for bulk processing operations.
Eyes:	Wear safety glasses or goggles if eye contact is possible.
Skin:	Impervious protective clothing is recommended if skin contact
-	with drug product is possible and for bulk processing operations.
Respiratory protection:	If the applicable Occupational Exposure Limit (OEL) is exceeded,
	wear an appropriate respirator with a protection factor sufficient
	to control exposures to below the OEL.
Section 0.	Physical and Chemical Properties
Section 9.	Physical and Chemical Properties
Physical state	Capsule
Color	Not data available.
Odor	Not data available.
Odor threshold	Not data available.
Molecular Formula:	Mixture
Solvent Solubility:	Not data available.
Sorron Sonability.	



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pH:	Not data available.
Melting/Freezing Point (°C):	Not data available.
Boiling Point (°C):	Not data available.
Partition Coefficient: (Method, pH, E	ndpoint, Value)
Gelatin	Not data available.
FD&C Blue No. 2	Not data available.
Ethylcellulose	Not data available.
Hydroxypropyl methylcellulose	Not data available.
Medium Chain Fatty Acid	Not data available.
Triglyceride	
Oleic acid	Not data available.
Starch	Not data available.
Sucrose	Not data available.
Shellac	Not data available.
Titanium dioxide	Not data available.
Simethicone	Not data available.
Ferric oxide yellow	Not data available.
Propylene glycol	Not data available.
Tolterodine L-Tartrate	Predicted Log P 5.24
Decomposition Temperature (°C):	Not data available.
Evaporation Rate (Gram/s):	Not data available.
Vapor Pressure (kPa):	Not data available.
Vapor Density (g/ml):	Not data available.
Relative Density:	Not data available.
Viscosity: Flammability:	Not data available.
Autoignition Temperature (Solid)	Not data available.
(°C):	
Flammability (Solids):	Not data available.
Flash Point (Liquid) (°C):	Not data available.
Upper Explosive Limits (Liquid) (%	
by Vol.):	
Lower Explosive Limits (Liquid)	Not data available.
(% by Vol.):	
	• Stability and Repotivity
Section 10	: Stability and Reactivity
Reactivity	Not data available.
Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reactions	
•	
Oxidizing Properties:	No data available
Conditions to Avoid:	Fine particles (such as dust and mists) may fuel
Incompatible Materials:	fires/explosions. As a precautionary measure, keep away from strong
	oxidizers
Hazardous Decomposition	No data available
products	

Section 11: Toxicological Information



Information on Toxicological Effects General Information:	The information included in this section describes the
Short Term:	potential hazards of the individual ingredients. Accidental ingestion may cause effects similar to those seen in clinical use.
Long Term:	Repeat-dose studies in animals have shown a potential to cause adverse effects on fetus.
Known Clinical Effects:	May cause effects similar to those seen in clinical use including dry mouth, blurred vision, constipation, and upset stomach.
Acute Toxicity: (Species, Route, End Po	int, Dose)
FD&C Blue No. 2	
Rat Oral LD50 2 g/kg	
Mouse Oral LD50 2500mg/kg	
Hydroxypropyl methylcellulose	
Rat Oral LD50 > 10,000 mg/kg	
Sucrose	
Rat Oral LD50 29.7 g/kg Titanium dioxide	
Rat Oral LD50 > 7500 mg/kg	
Rat Subcutaneous LD50 50 mg/kg	
Propylene glycol	
Rat Oral LD 50 22,000 mg/kg	
Mouse Oral LD 50 24,900mg/kg	
Rabbit Dermal LD 50 20,800mg/kg	
Tolterodine L-Tartrate	
Mouse Oral LD 50 > 200 mg/kg	
Acute Toxicity Comments:	A greater than symbol (>) indicates that the toxicity
	endpoint being tested was not achievable at the highest dose used in the test.
Irritation / Sensitization: (Study Type, Sp	pecies, Severity)
Propylene glycol	
Skin Irritation Rabbit Mild	
Eye Irritation Rabbit Mild	
Tolterodine L-Tartrate	
Skin Irritation Rabbit Non-irritating	
Skin Sensitization - GPMT Guinea Pig No	
	cies, Route, Dose, End Point, Target Organ)
Tolterodine L-Tartrate	
26 Week(s) Mouse Oral 10 mg/kg/c	-
	/day NOAEL None identified
Reproduction & Developmental Toxicity Effect(s)) Tolterodine L-Tartrate	: (Study Type, Species, Route, Dose, End Point,
Reproductive & Fertility-Females Mouse	e Oral 20 mg/kg/day NOAEL No effects at maximum
dose Reproductive & Fertility-Males Mouse dose	e Oral 30 mg/kg/day NOAEL No effects at maximum



Embryo / Fetal Development Mot Teratogenic		20 mg/kg/da	ay NOAEL	Embryotoxicity,
Genetic Toxicity: (Study Type, Cell Ty	/pe/Organi	sm, Result)		
FD&C Blue No. 2				
Bacterial Mutagenicity (Ames) Salmo	onella	Nega	ative	
Bacterial Mutagenicity (Ames) Salmo	nella	Nega	tive	
Tolterodine L-Tartrate		-		
	onella , E. co	-		
In Vivo Chromosome Aberration Huma		-		
In Vivo Micronucleus Mouse		Nega		
Carcinogenicity: (Duration, Species,	Route, Dos	e, End Poin	t, Effect(s))	
Tolterodine L-Tartrate				
Not specified Mouse Oral 30 r	ng/kg/day	Maximally T	olerated Dos	e Not carcinogenic
Carcinogen Status: None of the compo NTP or OSHA.	onents of thi	is formulatior	n are listed as	a carcinogen by IARC,
Titanium dioxide				
IARC: Group 2	B (Possibly	Carcinogeni	ic to Humans	
Section	12: Ecolo	ogical Info	rmation	
Environmental Overview:				nat is toxic to aquatic life. ctive ingredient, below:
Toxicity:	'	, j		5
Aquatic Toxicity: (Species, Method, E	nd Point, I	Duration, Re	sult)	
Tolterodine L-Tartrate				
Daphnia magna (Water Flea)	OECD			.7 mg/L
Pseudokirchneriella subcapitata	(Green Alg	,	72 Hours 2	20 mg/L
Persistence and Degradability: Bio-accumulative Potential:	No data	a available		
Partition Coefficient: (Method, pH, En	dnoint Va	luo)		
Tolterodine L-Tartrate	uponit, va	iue)		
Predicted Log P 5.24				
Mobility in Soil:	Nc	o data availab	ble	
Section 2	3: Dispo	sal Consid	lerations	
Waste Treatment Methods:	and re- specific relevan of the n and pro to pre release practice to pre destruc	gulations. M provisions t known env naterial, revie ocedural was vent occupa t. It is recor ed. The best vent enviror	ember State must be cor ironmental a ew and impler te water and ational expo nmended that available tec mental relea es for waste a	e with all applicable laws specific and Community nsidered. Considering the nd human health hazards ment appropriate technical waste disposal measures sure and environmental at waste minimization be hnology should be utilized ases. This may include and wastewater.
The following refers to all modes of transportation unless specified below.				



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#### HETERO LABS LIMITED

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.		
Section 15: Regulatory Information		
Safety, Health and Environmental Reg Canada - WHMIS: Classifications WHMIS hazard class: Class D, Division 2, Subdivision A Sucrose	ulations/Legislation Specific for the Substance or Mixture	
CERCLA/SARA 313 Emission reporting	Not Listed	
California Proposition 65 Inventory - United States TSCA - Sect. 8(b)	Not Listed Present	
Australia (AICS): REACH - Annex IV - Exemptions	Present Present	
from the obligations of Register: EU EINECS/ELINCS List	200-334-9	
Hydroxypropyl methylcellulose		
CERCLA/SARA 313 Emission reporting	Not Listed	
California Proposition 65 Inventory - United States TSCA - Sect. 8(b)	Not Listed Present	
Australia (AICS): Standard for the Uniform	Present Schedule 4	
Scheduling for Drugs and Poisons: EU EINECS/ELINCS List	Not Listed	
Starch CERCLA/SARA 313 Emission	Not Listed	
reporting California Proposition 65 Inventory - United States TSCA -	Not Listed Present	
Sect. 8(b) Australia (AICS):	Present	
REACH - Annex IV - Exemptions from the obligations of Register:	Present	
EU EINECS/ELINCS List Tolterodine L-Tartrate	232-679-6	
CERCLA/SARA 313 Emission reporting	Not Listed	
California Proposition 65 EU EINECS/ELINCS List	Not Listed Not Listed	
Ethylcellulose CERCLA/SARA 313 Emission reporting	Not Listed	
California Proposition 65	Not Listed	



Inventory - United States TSCA -	Present
Sect. 8(b)	
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed
Medium Chain Fatty Acid Triglyceride	
CERCLA/SARA 313 Emission	Not Listed
reporting	
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
	Not Listed
Ferric oxide yellow	
CERCLA/SARA 313 Emission	Not Listed
reporting	
California Proposition 65	Not Listed
Inventory - United States TSCA -	Present
Sect. 8(b)	
Australia (AICS):	Present
EU EINECS/ELINCS List	257-098-5
Propylene glycol	-
CERCLA/SARA 313 Emission	Not Listed
reporting	NetListed
California Proposition 65	Not Listed
Inventory - United States TSCA -	Present
Sect. 8(b)	
Australia (AICS):	Present
EU EINECS/ELINCS List	200-338-0
Shellac	
CERCLA/SARA 313 Emission	Not Listed
reporting	
California Proposition 65	Not Listed
Inventory - United States TSCA -	Present
Sect. 8(b)	
Australia (AICS):	Present
EU EINECS/ELINCS List	232-549-9
	202-040-0
Simethicone	N1.41.2.4.1
CERCLA/SARA 313 Emission	Not Listed
reporting	
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	Present
Titanium dioxide	
CERCLA/SARA 313 Emission	Not Listed
reporting	
California Proposition 65	carcinogen initial date 9/2/11 airborne, unbound particles of
	respirable size
Inventory - United States TSCA -	Present
Sect. 8(b)	
	Procent
Australia (AICS):	Present
EU EINECS/ELINCS List	236-675-5
Oleic acid	
CERCLA/SARA 313 Emission	Not Listed
reporting	



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California Proposition 65	Not Listed
Inventory - United States TSCA -	Present
Sect. 8(b)	
Australia (AICS):	Present
EU EINECS/ELINCS List	204-007-1
FD&C Blue No. 2	
CERCLA/SARA 313 Emission	Not Listed
reporting	
California Proposition 65	Not Listed
Inventory - United States TSCA -	Present
Sect. 8(b)	
Australia (AICS):	Present
EU EINECS/ELINCS List	212-728-8
Gelatin	
CERCLA/SARA 313 Emission	Not Listed
reporting	
California Proposition 65	Not Listed
Inventory - United States TSCA -	Present
Sect. 8(b)	
Australia (AICS):	Present
EU EINECS/ELINCS List	232-554-6

#### **Section 16: Other Information**

#### Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child Hazardous to the aquatic environment, acute toxicity-Cat.2; H401 - Toxic to aquatic life Hazardous to the aquatic environment, chronic toxicity-Cat.2; H411 - Toxic to aquatic life with long lasting effects

Toxic to Reproduction: Category 2 N - Dangerous for the environment

R63 - Possible risk of harm to the unborn child. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

Hetero Labs Limited shall not be held liable for any damage resulting from handling or from contact with the above product. Hetero Labs Limited reserves the right to revise this SDS