

Product name: Levetiracetam injection

Issue date: 10/30/18

SDS

Safety Data Sheet

SDS No.: 18868981030302

Creator: BDT Chemical Technology (Shanghai) CO.,LTD

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Version 1.0 Revision Date: 10/30/18

1. Product and Company Identification

Product name : Levetiracetam injection

Product use : For the treatment of epilepsy

Manufacturer/Supplier : Hainan Poly Pharm Co. Ltd

Address : No.2 Xingyang Road, Guilingyang Economic Development Area,

Haikou, Hainan 571127, P.R.China

Telephone : +86 898 65712762

E-mail : hnpoly@hnpoly.com

Emergency telephone : +86 898 65712762

number of the company

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

GHS classification of the : Acute toxicity – oral category 4

product Eye damage/irritation category 2

Label elements

Pictogram

Signal word : Warning

Hazard statement : Harmful if swallowed

Causes serious eye irritation

Precautionary statements

Prevention : Wash exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves / protective clothing / eye protection / face

protection.

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Response

IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Hazards not otherwise

classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Components

Chemical Name	CAS-No.	Concentration
(2R)-2-(2-oxopyrrolidin-1-yl)butanamide	102767-28-2	90 – 95%
Sodium acetate	127-09-3	1 – 2%
Sodium chloride	7647-14-5	5 - 10%
Acetic acid	64-19-7	0.1%

4. First-Aid Measures

Description of first aid measures

Inhalation

If difficulties occur after vapour has been inhaled, remove to fresh air

and seek medical attention.

Skin contact

After contact with skin, wash immediately with plenty of water. If irritation

persists, consult a physician.

Eye contact

If you use contact lenses, remove the lenses first. Wash affected eyes for

at least 15 minutes under running water with eyelids held open. If symptoms occur, consult a physician, preferably an ophthalmologist.

Ingestion

Rinse mouth immediately and then drink plenty of water, seek medical attention.

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Most important symptoms and effects, both acute and delayed Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment of exposure should be directed at the the clinical condition of the patient.

5: Fire-Fighting Measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

Unsuitable extinguishing : media

No data available.

Special hazards arising from the substance or mixture

Hazardous combustion

products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to:

Carbon monoxide. Carbon dioxide. Nitrogen oxide.

Advice for firefighters

Special protective equipment for firefighters

: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6: Accidental release measures

Personal precautions, protective equipment

Avoid eye contact. Use personal protective equipment.

and emergency
procedures

Environmental : Contain contaminated water/firefighting water. Prevent from entering into precautions soil, ditches, sewers, waterways and/or groundwater.

Methods and materials for containment and

Contain spilled material if possible. Collect in suitable and properly labeled containers.

for containment and cleaning up

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Handling and storage

Avoid contact with the skin, eyes and clothing .Ensure adequate Advice on safe handling :

ventilation.

Conditions for safe

Keep tightly closed in a dry and well-ventilated place.

storage, including any incompatibilities

Exposure Controls/Personal Protection

Control parameters

Chemical name	Occupational Exposure Limits		Regulation	
acetic acid	10 ppm	TWA	ACGIH	
acetic acid	15 ppm	STEL	ACGIH	

Personal protective equipment

None required under normal conditions. Respiratory protection should Respiratory protection

be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Hand protection None required under normal conditions.

Eye protection In case of risk of spray, Use safety glasses (with side shields).

Skin and body protection: None required under normal conditions.

Physical and chemical properties

liquid Form

clear Colour

none Odour

5.0-6.0 pΗ

no data available Melting point

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no data available **Boiling point**

no data available Flash point

no data available Thermal decomposition

temperature

Relative density 1.0212

no data available Water solubility

no data available Viscosity, dynamic

10: Stability and Reactivity

reactions

Conditions to avoid

No hazardous reactions if stored and handled as prescribed/indicated. Reactivity

Stable under recommended storage conditions. Chemical stability

This material is considered stable. Possibility of hazardous

Avoid extreme temperatures.

Avoid contact with: Strong alkali, strong acid, strong oxidizers. Incompatible materials

Carbon monoxide. Carbon dioxide. Nitrogen oxide. Hazardous

decomposition products

11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity: oral

Sodium chloride LD50/rat:3 550 mg/kg bw

Sodium acetate

LD50:2,72 other: g/kg bw

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Acute Toxicity: inhalation

Sodium chloride LC50/1 h/rat:> 42 mg/L air

Sodium acetate LC50/4 h:> 5.81 mg/L air

Acute Toxicity: dermal

Sodium chloride LD50/rabbit:> 10 000 mg/kg bw

Sodium acetate LD50:> 28 269.15 mg/kg bw

Skin irritation/corrosion

Sodium chloride rabbit not irritating

Sodium acetate not irritating

Serious eye damage/irritation

Sodium chloride rabbit not irritating

Sodium acetate not irritating

Respiratory or skin sensitisation

Sodium chloride mouse not sensitising

Sodium acetate not sensitising

Germ cell mutagenicity

Evidence analysis showed that the substance did not induce gene mutations.

Carcinogenicity

Evidence analysis showed that the substance was not a carcinogen.

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Reproductive toxicity

Animal tests showed no developmental toxicity.

STOT-single exposure

No information available

STOT-repeated exposure

No information available

Aspiration hazard

No information available

12: Ecological information

Aquatic Toxicity

Short-term toxicity to fish

Sodium chloride

LC50/96 h/Lepomis macrochirus:5 840 mg/L

Sodium acetate

LC50/96 h/Danio rerio (previous name: Brachydanio rerio):> 100 mg/L

Long-term toxicity to fish

Sodium chloride

NOEC/33 d/Pimephales promelas:252 mg/L

Short-term toxicity to aquatic invertebrates

Sodium chloride

LC50/48 h/Daphnia magna:874 mg/L

Sodium acetate

EC50/48 h/Daphnia magna:> 1 000 mg/L

Long-term toxicity to aquatic invertebrates

Sodium chloride

NOEC/21 d/Daphnia pulex:314 mg/L

Toxicity to microorganisms

Sodium chloride

NOEC/activated sludge:5 000 - 8 000 mg/L

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Sodium acetate

EC10/16 h/Pseudomonas putida:3.5 g/L

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

13: Disposal considerations

Product : Observe national and local legal requirements.

Contaminated packaging: Packs that cannot be cleaned should be disposed of in the same

manner as the contents.

14: Transport Information

Land transport

DOT

UN number : not applicable

UN proper shipping : not applicable

name:

Transport hazard : not applicable

class(es):

Packing group : not applicable

Sea transport

IMDG

UN number : not applicable
UN proper shipping : not applicable

UN proper shipping : not applicable

name :

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Transport hazard

not applicable

class(es):

not applicable Packing group

Air transport

IATA/ICAO

not applicable **UN number**

not applicable UN proper shipping

name:

not applicable Transport hazard

class(es):

not applicable Packing group

15: Regulatory information

Federal Regulations

Registration status:

Chemical

TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute

CA Prop. 65:

There are no listed chemicals in this product.

NFPA Hazard codes:

Health: 1

Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

16: Other information

SDS Prepared by:

BDT Chemical Technology (Shanghai) CO.,LTD

SDS Prepared on: 10/30/18

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The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturerspecific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.



Standard Pharmaceutical Product Information (Rx Product Only)

© August 2014	Introduction Type:	New Item	Final Version	Date:	12/3/2018
PRODUCT INFORMATION			SPECIAL HANDLIN	G AND STORAGE REQUIREMEN	15
Company Name: TAG! Posrms, Inc. Application Number for NDA/ANDA/BLA (drug); PMA/510(k)(med device); 2	Application:	ANDA	a. Temperature – Indicate the USP temperature Temperature Range		woen 20 and 25 C (68" - 77" i
DUNS: 963322560			Other Temperature Range Requ	*****	
Proprietary Name (If Applicable) and Established Name: Levetracetem	A transfer of the second second		(write in)	No Requirement	
Selling Unit NDC: 51224-013-25 Individual Unit NDC:	UPC:				
UD) CVX Code:	MVX Code:	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ts this product to be shipped to	customers on ice?	No
Description: Levetitacelam injection, USP 500mg/5mL			is this product to be shipped to	customers on dry (ce?	No
Active ingredient(s): Levatiracotam			b. Contact for temperature excursion question	ons:	
			Name;	Mat Mathis	
URL for Additional Product Information: www.tagiphama.com Address: 722 Progressive Lene	1 Address 2: Roam 205		Number	815-624-7685	
City: South Seloit	Address 2: Room 205	161080	Group E-mail:	mmathitattlagiphamia.	com
Key Contact: Meliasa Bradley	Email: mbradley@taglpharma.com.		c. Special regulations for product in any star	las?	No
Phone Number: 615-624-7685	Fax: 815-624-7687		Special returns requirements for		
Product Therapeutic Classification:			1		
ADDITIONAL PRODUCT INFORMATION	PRODUCT DESCRIPTION INFO	ALATIAN MENUNCHUNING	d. Store product (unit of sale) upright?		Yes
1	de la constitución de la constit		Protect product (unit of sale) f	rom light?	Yes
Is the Product			e. Shelf life: Initial shelf life at launch (if dil	fferent):	24 Months Months
teverse numbered?	Size: 5ml.		Primar selen me acidonem (m um	neterny.	momns
co-licensed?	Strength: 500mg		CR	DER INFORMATION	
fs the Product Direct-Ship Only	anongui.				
is the Product Neither	Doxage Form; Viat		Unit of Sale Bottle	What is the NDC selling	ng unit?
	<u> </u>		Box/Carton	(Write-in, e.g. 1 Box of	10 Via(s)
# Unit Dose, is fem bar coded to unit dose for hospital scanning?	Product Shape:		Ampute		
If Unit Dose NDC, indicate NDC here,			Grass	Minimum order quant	ity? Yes
Country of Origin China	Product Color: Clear, colorless, sterie	solution	Tube x (Vial Liquid Sg)		
Is this product covered under the Trade Agreements Act (TAA)?	Product Imprint:		Vial Liquid Multi	if Yes, how many of w	hich package type?
No No	r route, imprint.		Vial Powder Sql	1 Box Each	
L			Vial Power Multi Other: Write In	Inner/Cart	or/Pack
FOR GENERIC DRUG PRODUCTS			Other value is	Case	
Samming Demonstrate Association Association for the Association of configuration for Association (Association		Salikulis aktiviti ta			
<u></u>		d Generic, other section		ACY ORDER / BILL UNIT	
I. Orange Book Rating: AP	neids are n	et applicable	Rec. sell unit to customer?	Rx billing unit to phan	macy;
II. Generic Equivalent to What Brand?: Keppra			(Write-in, e.g. 1 Vial)	Each Gram	
ORUG SUPPLY CHAIN SEGURITY ACT (OSCSA) IN	FORMATION		(vento-si, e.g. r venty	Milliter	
Poes supplier meet DSCSA definition of manufacturer? Yes G	LN:		TEM AND	PACKING INFORMATION	
Is product exempt from DSCSA? No			The state of the s		
If yes, select exemption:	<u>ierake ji ku njian keja jengen ing</u>	-	Weight Lins.	Dimensions (US msmts.)	Volume #Pieces:
Other exemption - Write in: Is product reparkaged? No. If		J		Depth Height Width	(Cube)
	Yes, was original product purchased direct on mir?		1,08	4.52 4.52 2.55	
	yes, attach documentation from FDA.		Box/Carton/Bundle/	Service Version in the service	
			Inner Pack:		
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Salcable Level Unit	Quantity	GTIN-14	Pallet:		4
Settalized? No 1 item Yes	2D X Linear 1	00351224013254			
If not, when? 9/1/2019 Box/Carton/Bundlefinner Pack	20 Linear Linear		UPC: Case:		
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	2D Linest				
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			(LE 1911 1		
	SDS) or non hazard fetter, PACKAGE INSERT, LA				****
*Please provide any additional information on page 2.	See new p. 3 for Designated t	rop Ship Only.	Signature:	Melis	sa Bradley
			~ ~		



Standard Pharmaceutical Product Information (Page 2)

	gnated Drop Ship Only Products, Please use Page 3 LHAZARD CLASSIFICATION and TRANSPORTATION
is this product (check all that apply):	
a. Cytotoxic? No	SDS Hazard Classification
b CA Prop. 65 Carcinogen or Reproductive Toxicant?	
is the product a CA Prop 65 carcinogen? No	_ Organic Corrosive
is the product a CA Prop 65 reproductive toxicant?	Inorganic Oxidizer
Does the product label bear a CA Prop 65 warning? No	_ Sterold/Androgen Contact Hazard
c. Contact Hazard? NoNo	Aerosol Class, Identify NFPA Storage Level
d Does this product require special clean-up instructions? No	
(If yes, attach SDS with special instructions.)	Is the product a NIOSH hazardous drug?
e. Does the product contain DEHP? No No	If yes, indicate which
Is this product regulated for shipment by DOT or IATA? No	
(if yes, answer a-e below and provide SDS)	
a UN/Identification Number	
b. Proper Shipping Name	Hazardous Waste Identification
c DOT Hazard Class	EPA Hazardous Waste Code
d Packing Group	
e Inhalation Hazard? No	
Is the product restricted for air shipment? If so, indicate restriction,	REMS of REGISTRY RESTRICTIONS
Passenger	Is there a REMS on this product? No
Cargo	If Yes, is it managed with a pharmacy registry?
Passenger & Cargo	Website URL.
Is this a reportable quantity? No	
RQ Threshold	Comments / Details: (For example, iPledge program?)
Is this a marine pollutant? No	
Is this product shipped utilizing an authorized DOT exception or Special Permit?	
No (if yes, identify method below)	REMS:
Limited Quantity	REMS Program Manager Name Phone
Consumer Commodity, ORM-D	Supplier Manages REMS registry exclusively
Small Quantity (49 CFR 173.4)	Wholesale distributor support
Special Permit, DOT-SP	Provider Name.
Special Provision (listed in Column 7 of 49 CFR 172.101).	Site Enrollment Number assigned DEA #:
SP#	by Supplier PCPDP #
	NPI#
ADDIT STORAGE INFORMATION Is the Product.	Comments
Controlled Substance?	Comments
Controlled by State(s)?	Registry:
ARCOS Reportable?	Registry Program Contact Name Phone
Schedule No. (inc. N for non-nercotic)	Comments
Controlled Substance Code	
Listed Chemical (List 1 or II) No.	RETURN INSTRUCTIONS
If yes, indicate which	
Is it a scheduled listed chemical product?	Contact tel # if product received damaged: 815-624-7685
CLASS OF TRADE RESTRICTION:	Is product returnable for credit: Yes
No restriction: Select YES if sold to retail pharmacy inceptals clinics and physician offices Yes	URL/Link to returns policy:
Restricted to retail pharmacy onlyNo	Special regulations or returns requirements for this product in certain states? No
Restricted to hospital, clinics, and physician offices only:	If so, which states? Other requirements? Comments?
Restricted from US territories? (explain in comments) No	
Comments: Factor of the first factor of the factor of th	11. 经股份的 网络克拉特克拉克 医牙足 电电路 医克雷氏病 医电影性 人名英格兰克克 经营业 医科
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Release DATE



Standard Pharmaceutical Product Information (Page 3)

	R DESIGNATED DROP SHIP PRODUCT ONLY - If I		
Order Method for Designati	ed Drop Ship Product	Standard Order Receipt and Process	ilng
Purchase orders may be accepted by: a. EDI b. Autofax c. Fax d. Phone only e. Supplier Web Site only Minimum Order Quantity: Supplier's Customer Service Number: Contracted 3PL company / contact #: Name: Phone:	Fax Number: Fax Number: Phone No.: Site Address:	Purchase order daily receipt cut off time by supplier Cut off time: Shipping lead time of PO: Ships same day for next day receipt: Ships for second day receipt: Ships regular ground for 3-10 days receipt:	Days
Expedited Freight Charges or Othe	r Designated Drop Ship Fees:	Overnight and Priority Overnight PO Proc	cessing
Expedited freight fees billed with each order:	<u> </u>	Overnight receipt available:	
Drop Ship service fee billed with each order:		PO Receipt cut off time:	
Drop Ship miscellaneous fees billed:	Period Act	Days of week overnight is available:	Monday
Comments:		Priority Overnight receipt available:	Tuesday Wednesday Thursday Friday
Class of Trade F	testriction:	PO Receipt Cut off time:	
No restriction: Select YES if sold to retail pharmacy, hosp Restricted to retail pharmacy only: Restricted to hospital, clinics, and physician offices only: Restricted from US territories? (explain in comments) Comments:	itals, clinics and physician offices	Saturday Overnight receipt available: PO Receipt Cut off time: Phone: Fax: EDI: Overnight Fees apply:	
Other Data Information Re-	quired to Process PO:	Return instructions	
Patient Procedure Date: Physician Name: Physician/Clinic Phone # Physician/Clinic DEA #: Physician/Clinic Specialty: Miscellaneous	s Notes:	Contact # if product is received damaged: Is product returnable for credit: URL/Link to returns policy: Special regulations or returns requirements for this product in certa If so, which states? Other requirements? Comments?	in states?
		ADDITIONAL INFORMATION Is product order for scheduled patient procedure? Is product order for restocking purposes?	