



扫二维码
关注谱尼测试



Pony Testing International Group

Report No.: MMI0TCJM17581716

MSDS Report

Sample Description
& Model

Li-ion battery BD-EB3616-FB285

Applicant

HANGZHOU LIN'AN BEYONDER POWER CO.,LTD

Address

Building 13#, No.399 of Huanbei Rd, Lin' an, Hangzhou



微信扫一扫，使用小程序 小程序扫一扫，在线验证



No.: MMI0TCJM17581716

Code: zbxu563



北京实验室: (010)82618116	长春实验室: (0431)85150908	石家庄实验室: (0311)85376660	武汉实验室: (027)83997127
上海实验室: (021)64851999	大连实验室: (0411)87336618	西安实验室: (029)89608785	合肥实验室: (0551)63843474
青岛实验室: (0532)88706866	哈尔滨实验室: (0451)88104651	呼和浩特实验室: (0471)3450025	广州实验室: (020)89224310
深圳实验室: (0755)26050909	郑州实验室: (0371)69350670	杭州实验室: (0571)87219096	厦门实验室: (0592)5568048
天津实验室: (022)27360730	新疆实验室: (0991)6684186	宁波实验室: (0574)87736499	成都实验室: (028)87702708
苏州实验室: (0512)62997900			

©Hotline 4008833333 www.ponytest.com

声明 Statement

1. 本证明/报告的结论仅对委托方所送样品负责。
The conclusion of the certificate/report is responsible for the provided sample only.
2. 委托方必须如实提供样品, 申报和声明资料, 并保证与实际相符, 否则由委托方承担由此导致的全部后果和责任。
The applicant shall provide accurately and truly the description and statement of the sample, shall guarantee to match the sample and real situation which they provided and declared. Otherwise the application shall bear any relevant consequences and responsibility.
3. 如委托方提供的样品及相关资料存在虚假、伪造等情形, 所造成的全部后果和责任由委托方承担。
In case the sample and documents provided involved in the situation of fake and forgery, any consequences and responsibility caused by this shall be undertaken by applicant.
4. 本证明/报告全部或部分复制、私自转让、盗用、冒用、涂改或以其它任何形式篡改的均属无效, 本单位将对上述行为追究其相应的法律责任。
The certificate/report can not be copied in whole or part, the copied version is invalid. The certificate is invalid in case of illegal transfer, reproduction, embezzlement, imposture, modification or any altering. PONY shall investigate the applicant's legal liability accordingly.
5. 本证明/报告不考虑国家及经营人差异。
The certificate/report takes no account of the differences of countries and applicants.
6. 本单位有权在完成证明/报告后处理委托方所送样品。
PONY has the right to dispose the provided sample after approval of the certificate/report.

▲ 防伪说明:

- (1) 报告编号是唯一的;
- (2) 报告采用特制防伪纸张印制, 纸张表面带有“PONY”防伪纹路, 该防伪纹路不支持复印, 即复制件不会带有“PONY”防伪纹路;
- (3) 报告采用的防伪纸张内部亦加带有高科技“PONY”防伪水印, 只有在验钞机等紫外线照射下方可显出无色荧光防伪字样。



扫微信二维码
关注谱尼测试

www.ponytest.com

☎ Hotline 400-819-5688

北京实验室: (010)82618116
上海实验室: (021)64851999
青岛实验室: (0532)88706866
深圳实验室: (0755)26050909
天津实验室: (022)27360730
苏州实验室: (0512)62997900

长春实验室: (0431)85150908
大连实验室: (0411)87336618
哈尔滨实验室: (0451)88104651
郑州实验室: (0371)69350670
新疆实验室: (0991)6684186

石家庄实验室: (0311)85376660
西安实验室: (029)89608785
呼和浩特实验室: (0471)3450025
杭州实验室: (0571)87219096
宁波实验室: (0574)87736499

武汉实验室: (027)83997127
合肥实验室: (0551)63843474
广州实验室: (020)89224310
厦门实验室: (0592)5568048
成都实验室: (028)87702708



Pony Testing International Group

Report No.: MMI0TCJM17581716 Date: 08.13.2018 Page 1 of 14

Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.7 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical Product Identification

Sample Description: Li-ion battery**Sample Model:** BD-EB3616-FB285**Recommended Uses:** For E-bike**Restrictions on Use:** N/A**Supplier Name:** HANGZHOU LIN'AN BEYONDER POWER CO.,LTD**Address:** Building 13#, No.399 of Huanbei Rd, Lin' an, Hangzhou**Phone Number:** 0571-23658808**FAX:** 0571-23658808**E-mail:** meixia@hzbddy.com**Emergency Phone Number:** 0571-23658808

Section 2 - Hazards Identification

Emergency overview: This product is an article which contains a chemical substance.

Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance. This is a battery.

In case of rupture: the below hazards exist.

CAS# 1313-13-9**Classification according to GHS**

Germ cell mutagenicity (2)

Specific target organ toxicity, repeated exposure (1) (respiratory system, nervous system)

Hazardous to the aquatic environment, long-term hazard (4)

Label elements

Hazard pictogram(s):**Signal word:**

Danger

Hazard statement(s):

H341 Suspected of causing genetic defects



Pony Testing International Group

Report No.: MMI0TCJM17581716 Date: 08.13.2018 Page 2 of 14

H372 Causes damage to organs through prolonged or repeated exposure (respiratory system, nervous system, cardiovascular system)

H413 May cause long lasting harmful effects to aquatic life

Precautionary statement(s):

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P260 Do not breathe dust, fume.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

Response:

P308 + P313 IF exposed or concerned: Get medical advice.

P314 Get medical advice if you feel unwell.

Storage

P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

CAS# 1313-99-1

Classification according to GHS

Sensitisation, respiratory (1, 1A, 1B)

Sensitisation, skin (1, 1A, 1B)

Carcinogenicity (1)

Specific target organ toxicity, repeated exposure (1) (respiratory system)

Hazardous to the aquatic environment, long-term hazard (4)

Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

H350 May cause cancer

H372 Causes damage to organs through prolonged or repeated exposure (respiratory system)

H413 May cause long lasting harmful effects to aquatic life



Precautionary statement(s):

Prevention:

- P284 [In case of inadequate ventilation] wear respiratory protection.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves, protective clothing, eye protection, face protection.
- P260 Do not breathe dust, fume, gas, mist, vapours, spray.
- P264 Wash skin and clothing thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P272 Contaminated work clothing should not be allowed out of the workplace.

Response:

- P304 + P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER
- P308 + P313 IF exposed or concerned: Get medical advice.
- P314 Get medical advice if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of water
- P333 + P313 If skin irritation or rash occurs: Get medical advice.
- P321 Specific treatment (See additional emergency instructions).
- P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

- P405 Store locked up.

Disposal:

- P501 Send contents to approved waste treatment plants.

CAS# 7429-90-5

Classification according to GHS

- Substances and mixtures which, in contact with water, emit flammable gases (2, 3)
- Specific target organ toxicity, repeated exposure (1) (respiratory system)

Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

- H261 In contact with water releases flammable gas
- H372 Causes damage to organs through prolonged or repeated exposure (respiratory system)



Pony Testing International Group

Report No.: MMI0TCJM17581716 Date: 08.13.2018 Page 4 of 14

Precautionary statement(s):
Prevention:

P223 Do not allow contact with water.

P231 + P232 Handle and store contents under inert gas, Protect from moisture.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P260 Do not breathe dust.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P302 + P335 + P334 IF ON SKIN: Brush off loose particles from skin and immerse in cool water.

P370 + P378 In case of fire, use the appropriate type of fire extinguisher to extinguish the blaze.

P314 Get medical advice if you feel unwell.

Storage

P402 + P404 Store in a dry place. Store in a closed container.

Disposal:

P501 Send contents to approved waste treatment plants.

CAS# 7440-50-8
Classification according to GHS

Sensitisation, skin (1, 1A, 1B)

Specific target organ toxicity, single exposure (1) (digestive system)

Specific target organ toxicity, single exposure; Respiratory tract irritation (3)

Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

H317 May cause an allergic skin reaction

H370 Causes damage to organs (digestive system)

H335 May cause respiratory irritation

Precautionary statement(s):
Prevention:

P260 Do not breathe dust, fume.

P272 Contaminated work clothing should not be allowed out of the workplace.



Pony Testing International Group

P280 Wear protective gloves, eye protection, face protection.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

Response:

P302 + P352 IF ON SKIN: Wash with plenty water.

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P321 Specific treatment (See additional emergency instructions).

P362 + P364 Take off contaminated clothing and wash it before reuse.

P308 + P311 IF exposed or concerned: Call a POISON CENTER.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER if you feel unwell.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

Other hazards

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Cobaltate, lithium	12190-79-3	235-362-0	20-25
Manganese dioxide	1313-13-9	215-202-6	15-20
Nickel Oxide	1313-99-1	215-215-7	10-15
Carbon	7440-44-0	231-153-3	15-20
Electrolyte	---	---	5-15
Polyvinylidene fluoride resin	24937-79-9	607-458-6	5-10
Aluminium	7429-90-5	231-072-3	2-10



Pony Testing International Group

Report No.: MMI0TCJM17581716 Date: 08.13.2018 Page 6 of 14

Copper	7440-50-8	231-159-6	2-10
Aluminium and inert materials	---	---	5-10

Section 4 - First Aid Measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Personal protective equipment for first-aid responders: No data available.

Most important symptoms/effects, acute and delayed: No data available.

Indication of immediate medical attention and special treatment needed: No data available.

Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Use extinguishing agent suitable for local conditions and the surrounding environment .
Such as dry powder , CO₂.

Unsuitable extinguishing media:

No data available.

Specific Hazards arising from the chemical:

Special hazards arising from the substance or mixture

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or



abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in close proximity.

Specific protective actions for fire-fighters:

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6 - Accidental Release Measures

Personal precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Protective equipment:

No data available.

Emergency procedures:

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and materials for containment and cleaning up:

For all waste handling must refer to United Nations, National and Local Regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Precautions for safe handling:

Consumption of food and beverage should be avoided in work areas.

Wash hands with soap and water before eating, drinking.

Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection:

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles:

Store in a cool, dry, well-ventilated place.


Information about storage in one common storage facility:

Keep away from heat, avoiding the long time of sunlight.

Further information about storage conditions:

Keep container tightly sealed.

Specific and use:

No data available.

Section 8 - Exposure Controls/Personal Protection

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
12190-79-3	N/A	N/A	N/A
1313-13-9	N/A	N/A	N/A
1313-99-1	TLV-TWA 0.2mg/m ³	REL-TWA 0.015 mg/m ³	PEL-TWA 1mg/m ³
7440-44-0	N/A	N/A	PEL-TWA 5mg/m ³ PEL-TWA 15mg/m ³
24937-79-9	N/A	N/A	N/A
7429-90-5	TLV-TWA 1mg/m ³	REL-TWA 2mg/m ³ REL-TWA 5mg/m ³ REL-TWA 10mg/m ³	PEL-TWA 5mg/m ³ PEL-TWA 15mg/m ³
7440-50-8	TLV-TWA 0.2mg/m ³ TLV-TWA 1mg/m ³	REL-TWA 1mg/m ³ REL-TWA 0.1mg/m ³	PEL-TWA 0.1mg/m ³ PEL-TWA 1mg/m ³

Appropriate engineering controls:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Personal Protective Equipment:

Respiratory protection: Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

Hand Protection: Wear appropriate protective gloves to reduce skin contact.

Eye Protection: Wear safety goggles or eye protection combined with respiratory protection.

Skin and Body Protection: Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according



to the concentration and the content of certain hazardous substances in the workplace.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Colour:	Silver and Black.
Physical State:	Prismatic.
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Explosion Limits (vol% in air):	Not available.
Vapour pressure, kPa at 20°C:	Not available.
Vapor density:	Not available.
Density/Relative density (water = 1):	Not available.
Solubility(ies):	Not available.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Other information:	
Voltage	36V
Electric capacity	15.6Ah
Electric Energy	561.6Wh

Section 10 - Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable.

Possibility of hazardous reactions: No data available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.



Pony Testing International Group

Report No.: MMI0TCJM17581716 Date: 08.13.2018 Page 10 of 14

Incompatible materials: Oxidizing agents, acid base.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 11 - Toxicological Information

Acute Toxicity:

CAS No.	LC50/LD50
12190-79-3	No data available.
1313-13-9	No data available.
1313-99-1	LD50 Rat (oral): >50000mg/kg
7440-44-0	No data available.
24937-79-9	No data available.
7429-90-5	No data available.
7440-50-8	No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or Skin sensitization: No data available.

Germ Cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure: No data available.

Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: No data available.

Eye: No data available.

Skin: No data available.

Ingestion: No data available.

Inhalation: No data available.

Section 12 - Ecological Information

Ecological Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative Potential: No data available.



Pony Testing International Group

Report No.: MMI0TCJM17581716 Date: 08.13.2018 Page 11 of 14

Mobility in Soil: No data available.

Other adverse effects: No data available.

Section 13 - Disposal Considerations

Disposal methods:
Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging
Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

UN Number	
IATA	UN3480
IMDG	UN3480
Model Regulation	UN3480
UN Proper shipping name	
IATA	Lithium ion batteries
IMDG	LITHIUM ION BATTERIES
Model Regulation	LITHIUM ION BATTERIES
Transport hazard class(es)	
IATA	9
IMDG	9
Model Regulation	9
Packing group	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Packaging Sign	
IATA	
IMDG	
Model Regulation	
Environmental hazards	
Marine pollutant:	No
Special precautions for user	No information available.

Transport information: The Li-ion battery BD-EB3616-FB285 has passed the test UN38.3,



according to the report ID: MMIMEFWM11222721.

Watt-hour exceeds the standard, so it belongs to dangerous goods. The goods are packaged according to the packaging Instruction 965 section IA of IATA DGR 59th Edition for transportation, Cargo aircraft only.

Watt-hour exceeds the standard, so it belongs to dangerous goods. The goods are packaged according to the special provision 230, 348, 384 of IMDG (38-16).

Watt-hour exceeds the standard, so it belongs to dangerous goods. The goods are packaged according to the special provision 230, 348, 384 of <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th).

Separate batteries to prevent short-circuiting. and they should be packed in strong package during transport. Lithium cell or battery should incorporate a safety venting device or be designed to prevent a violent rupture under normal transport conditions. Keep away from high temperature and open flames.

Note: State of Charge (SoC) not exceeding 30% of their rated capacity. (By air, Lithium ion batteries)

Transport Fashion: By air, by sea, by railway, by road.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ ELINCS/ NLP
12190-79-3	Listed	Listed	Listed DSL	Listed
1313-13-9	Listed	Listed	Listed DSL	Listed
1313-99-1	Listed	Listed	Listed DSL	Listed
7440-44-0	Listed	Listed	Listed DSL	Listed
24937-79-9	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed



Section 16 - Other Information

Issue Time: 2018-08-13

Issue Department: Technical department

Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-time weighted average);

PC-TWA: (Permissible concentration-short time exposure limit);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

IARC: (International Agency for Research on Cancer);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model



扫微信二维码
关注谱尼测试



Pony Testing International Group

Report No.: MMI0TCJM17581716 Date: 08.13.2018 Page 14 of 14

Regulations);
 TOC: (Total Organic Carbon);
 TSCA: (Toxic Substances Control Act of USA);
 DSL: (the Domestic Substances List of Canada);
 NDSL: (the Non-domestic Substances List of Canada)

End of report

PONY 谱尼测试
 Pony Testing International Group

Hotline 400-819-5688 www.ponytest.com

Pony Testing International Group Shenzhen Co., Ltd.
 Address: 1F., Building 6, Zhongxing Industry City, Chuangye
 Road, Nanshan District, Shenzhen, Guangdong, China

北京实验室: (010)82618116

上海实验室: (021)64851999

青岛实验室: (0532)88706866

深圳实验室: (0755)26050909

天津实验室: (022)27360730

苏州实验室: (0512)62997900

长春实验室: (0431)85150908

大连实验室: (0411)87336618

哈尔滨实验室: (0451)88104651

郑州实验室: (0371)69350670

新疆实验室: (0991)6684186

石家庄实验室: (0311)85376660

西安实验室: (029)89608785

呼和浩特实验室: (0471)3450025

杭州实验室: (0571)87219096

宁波实验室: (0574)87736499

武汉实验室: (027)83997127

合肥实验室: (0551)63843474

广州实验室: (020)89224310

厦门实验室: (0592)5568048

成都实验室: (028)87702708