



Pony Testing International Group

Report No.: MPIP8M3L797697U3

MSDS Report

Sample Name
& Model

Lithium-ion cell JGCFR26650-3600mAh -3.2V

Applicant

Shandong Goldencell Electronics Technology Co.,Ltd

Address

5th Fuyuan Road, Hi-Tech District, Zaozhuang City,
Shandong, China



No.: MPIP8M3L797697U3

Code: 1Dp36



北京实验室:(010)83055000 武汉实验室:(027)85446975 新疆实验室:(0991)6684186 太原实验室:(0351)7555722
北京医学实验室:(010)62450233 武汉车附所:(027)82318175 石家庄实验室:(0311)85376660 合肥实验室:(0551)63843474
北京谱尼科技公司:(010)80415661 武汉医学实验室:(027)85446975 西安实验室:(029)89608785 广州实验室:(020)89224310
上海实验室:(021)64851999 吉林医学实验室:(0431)80529700 杭州实验室:(0571)87219096 厦门实验室:(0592)5568048
上海医学实验室:(021)37895599 长春实验室:(0431)80530198 杭州医学实验室:(0571)87219096 内蒙古医学实验室:(0471)3450025
上海松江实验室:(021)37895599 大连实验室:(0411)87336618 宁波实验室:(0574)87977185 呼和浩特实验室:(0471)3450025
青岛实验室:(0532)88706866 大连医学实验室:(0411)87336618 天津实验室:(022)23607888 贵州实验室:(0851)85221000
青岛医学实验室:(0532)88706866 哈尔滨实验室:(0451)58627755 天津医学实验室:(022)23607888 郑州实验室:(0371)69350670
深圳实验室:(0755)26050909 黑龙江医学实验室:(0451)58603455 成都实验室:(028)87702708 郑州协力润华医学实验室:
深圳医学实验室:(0755)26050909 苏州医学实验室:(0512)62997900 南宁实验室:(0771)5518818 (0371)63279066

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集团微信订阅号 集团微信服务号

北京实验室:(010)83055000
北京医学实验室:(010)62450233转8010
北京谱尼科技公司:(010)80415661
上海实验室:(021)64851999
上海医学实验室:(021)37895599
上海松江实验室:(021)37895599
青岛实验室:(0532)88706866
青岛医学实验室:(0532)88706866
深圳实验室:(0755)26050909
深圳医学实验室:(0755)26050909

武汉实验室:(027)85446975
武汉车附所:(027)82318175
武汉医学实验室:(027)85446975
吉林医学实验室:(0431)80529700
长春实验室:(0431)80530198
大连实验室:(0411)87336618
大连医学实验室:(0411)87336618
哈尔滨实验室:(0451)58627755
黑龙江医学实验室:(0451)58603455
苏州医学实验室:(0512)62997900

新疆实验室:(0991)6684186
石家庄实验室:(0311)85376660
西安实验室:(029)89608785
杭州实验室:(0571)87219096
杭州医学实验室:(0571)87219096
宁波实验室:(0574)87977185
天津实验室:(022)23607888
天津医学实验室:(022)23607888
成都实验室:(028)87702708
南宁实验室:(0771)5518818

太原实验室:(0351)7555722
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广州实验室:(020)89224310
厦门实验室:(0592)5568048
内蒙古医学实验室:(0471)3450025
呼和浩特实验室:(0471)3450025
贵州实验室:(0851)85221000
郑州实验室:(0371)69350670
郑州协力润华医学实验室:
(0371)63279066



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Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.9 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical Product Identification

Sample Name: Lithium-ion cell

Sample Model: JGCFR26650-3600mAh -3.2V

Recommended Uses: N/A

Restrictions on Use: N/A

Supplier Name: Shandong Goldencell Electronics Technology Co.,Ltd

Address: 5th Fuyuan Road, Hi-Tech District, Zaozhuang City, Shandong, China

Phone Number: 0632-5195098

FAX: 0632-5199218

E-mail: od02@goldencell.biz

Emergency Phone Number: 0632-5195098

Section 2 - Hazards Identification

Emergency overview: This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

Classification according to GHS

Acute toxicity, oral (4)

Skin corrosion/irritation (2)

Serious eye damage/eye irritation (2A)

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

Label elements

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation



Hotline 400-819-5688

www.ponytest.com

Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F of Building 2, Building 1, Xinhaozheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Phone: 0755-26050909

北京实验室: (010)83055000
北京医学实验室: (010)62450233-8010
北京谱尼科技公司: (010)80415661
青岛实验室: (0532)88706866
青岛医学实验室: (0532)88706866
天津实验室: (022)23607888
天津医学实验室: (022)23607888
长春实验室: (0431)80530198
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大连医学实验室: (0411)87336618

哈尔滨实验室: (0451)58627755
黑龙江医学实验室: (0451)58603455
郑州实验室: (0371)69350670
郑州医学实验室: (0371)63279066
新疆实验室: (0991)6684186
石家庄实验室: (0311)85376660
西安实验室: (029)89608785
西安创尼实验室: (029)81123093
西安德威克实验室: (029)62886819
西安医学实验室: (029)89608785
呼和浩特实验室: (0471)3450025

内蒙古医学实验室: (0471)3591511
太原实验室: (0351)7555722
成都实验室: (028)87702708
贵州实验室: (0851)85221000
上海实验室: (021)64851999
上海医学实验室: (021)64851999
苏州实验室: (0512)62997900
苏州汽车安全带及儿童安全座椅碰撞实验室: (0512)62997900
苏州医学实验室: (0512)62997900
武汉车附所: (027)82318175

武汉实验室: (027)83997127
武汉医学实验室: (027)85446975
杭州实验室: (0571)87219096
杭州医学实验室: (0571)87219096
宁波实验室: (0574)87977185
合肥实验室: (0551)63843474
深圳实验室: (0755)26050909
深圳医学实验室: (0755)26050909
广州实验室: (020)89224310
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Precautionary statement(s):**Prevention:**

P264 Wash skin and clothing thoroughly after handling.

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

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

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

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

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P330 Rinse mouth.

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

P321 Specific treatment (See additional emergency instructions).

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

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

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 (%)
Ferrous Phosphate Lithium	15365-14-7	476-700-9	26~38
Polyvinylidene fluoride resin	24937-79-9	607-458-6	0.9~1.1



Cellulose, carboxymethyl ether	9000-11-7	618-326-2	0.15~0.25
Styrene-butadiene rubber 1500	9003-55-8	618-370-2	0.35~0.45
Carbon black	1333-86-4	215-609-9	14~15.5
Polypropylene	9003-07-0	618-352-4	2~3
Phosphate(1-), hexafluoro-, lithium	21324-40-3	244-334-7	1.4~1.7
Carbonic acid, dimethyl ester	616-38-6	210-478-4	2.8~3.4
Carbonic acid, ethyl methyl ester	623-53-0	613-014-2	4.5~6.5
1,3-Dioxolan-2-one	96-49-1	202-510-0	2.3~2.7
Copper	7440-50-8	231-159-6	9.0~10.0
Aluminium	7429-90-5	231-072-3	3.9~4.4
Iron	7439-89-6	231-096-4	22~33

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: Treat symptomatically.

Section 5 - Fire Fighting Measures



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Suitable extinguishing media:

Small Fire: Dry chemical, CO₂, water spray or regular foam. Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

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:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal precautions:

As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate closed spaces before entering. Large Spill: Consider initial downwind evacuation for at least 100 meters (330 feet).

Protective equipment:

No data available.

Emergency procedures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Absorb with earth, sand or other non-combustible material. Leaking batteries and contaminated absorbent material should be placed in metal containers.

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.



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Section 7 - Handling and Storage

Precautions for safe handling:

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

Section 8 - Exposure Controls/Personal Protection

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
15365-14-7	N/A	N/A	N/A
24937-79-9	N/A	N/A	N/A
9000-11-7	N/A	N/A	N/A
9003-55-8	N/A	N/A	N/A
1333-86-4	TLV-TWA 3mg/m ³	REL-TWA 3.5mg/m ³	PEL-TWA 3.5mg/m ³
9003-07-0	N/A	N/A	N/A
21324-40-3	N/A	N/A	N/A
616-38-6	N/A	N/A	N/A
623-53-0	N/A	N/A	N/A
96-49-1	N/A	N/A	N/A
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
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
7439-89-6	N/A	N/A	N/A

Appropriate engineering controls:

The usual precautionary measures for handling chemicals should be followed.



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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:	Blue.
Physical State:	Cylindrical.
Odour:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Flammability:	Not available.
Solubility:	Not available.
Lower and upper explosion limit/flammability limit:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Kinematic viscosity:	Not available.
Partition coefficient: n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	Not available.
Relative vapour density:	Not available.
Particle characteristics:	Not available.
Other information:	
Voltage	3.2V



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3.6Ah

11.52Wh

Electric capacity

Electric Energy

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.

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
15365-14-7	No data available.
24937-79-9	No data available.
9000-11-7	No data available.
9003-55-8	No data available.
1333-86-4	No data available.
9003-07-0	No data available.
21324-40-3	No data available.
616-38-6	No data available.
623-53-0	No data available.
96-49-1	D50 Rat (oral): 10g/kg
7440-50-8	No data available.
7429-90-5	No data available.
7439-89-6	No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.



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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.**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 or ID Number**IATA**

UN3480

IMDG

UN3480

Proper Shipping Name/Description**IATA**

Lithium ion batteries

PONY 谱尼测试
Pony Testing International Group

Hotline 400-819-5688

www.ponytest.com

Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F of Building 2, Building 1, Xinhaozhong Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Phone: 0755-26050909

北京实验室: (010)83055000 哈尔滨实验室: (0451)58627755 内蒙古医学实验室: (0471)3591511 武汉实验室: (027)83997127
北京医学实验室: (010)62450233-8010 黑龙江医学实验室: (0451)58603455 太原实验室: (0351)7555722 武汉医学实验室: (027)85446975
北京谱尼科技公司: (010)80415661 郑州实验室: (0371)69350670 成都实验室: (028)87702708 杭州实验室: (0571)87219096
青岛实验室: (0532)88706866 郑州谱尼宏学实验室: (0371)63279066 贵州实验室: (0851)85221000 杭州医学实验室: (0571)87219096
青岛医学实验室: (0532)88706866 新疆实验室: (0991)6684186 上海实验室: (021)64851999 宁波实验室: (0574)87977185
天津实验室: (022)23607888 石家庄实验室: (0311)85376660 上海医学实验室: (021)64851999 合肥实验室: (0551)63843474
天津医学实验室: (022)23607888 西安实验室: (029)89608785 苏州实验室: (0512)62997900 深圳实验室: (0755)26050909
长春实验室: (0431)80530198 西安创尼实验室: (029)81123093 苏州汽车安全带及儿童安全座椅 碰撞实验室: (0512)62997900 广州实验室: (020)89224310
吉林医学实验室: (0431)80529700 西安德威克实验室: (029)62886819 苏州医学实验室: (0512)62997900 南宁实验室: (0771)5518818
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大连医学实验室: (0411)87336618 呼和浩特实验室: (0471)3450025



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IMDG	LITHIUM ION BATTERIES
Class or Div. (Sub Hazard)	
IATA	9
IMDG	9
Packing Group	
IATA	N/A
IMDG	N/A
Hazard Label	
IATA	
IMDG	N/A
Environmental hazards	
Marine pollutant:	No
IMDG EmS:	F-A, S-I
Special precautions for user	No information available.

Transport information: The Lithium-ion cell JGCFR26650-3600mAh -3.2V has passed the test UN38.3, according to the report ID: MOI88AOJ57154721.

According to the Packing Instruction 965 section IB of IATA DGR 63rd Edition for transportation, Cargo aircraft only.

According to the special provision 188 of IMDG (40-20), the goods are not subject to other provision of this code.

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.

Section 15 - Regulatory Information

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



CAS No.	TSCA	IECSC	DSL/NDL	EINECS/ ELINCS/ NLP
15365-14-7	Listed	Listed	Listed DSL	Listed
24937-79-9	Listed	Listed	Listed DSL	Listed
9000-11-7	Listed	Listed	Listed DSL	Listed
9003-55-8	Listed	Listed	Listed DSL	Listed
1333-86-4	Listed	Listed	Listed DSL	Listed
9003-07-0	Listed	Listed	Listed DSL	Listed
21324-40-3	Listed	Listed	Listed DSL	Listed
616-38-6	Listed	Listed	Listed DSL	Listed
623-53-0	Listed	Listed	Listed DSL	Listed
96-49-1	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed
7439-89-6	Listed	Listed	Listed DSL	Listed

Section 16 - Other Information

Issue Date: 2022-01-04

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);



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Pony Testing International Group

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-short time exposure limit);
 PC-TWA: (Permissible concentration-time weighted average);
 IARC: (International Agency for Research on Cancer);
 LC50: (Lethal concentration, 50 percent kill);
 LD50: (Lethal dose, 50 percent kill);
 EC50: (Median effective concentration);
 BCF: (Bioconcentration Factor);
 BOD: (Biochemical oxygen demand);
 IECSC: (Inventory of Existing Chemical Substances in China);
 NOEC: (No observed effect concentration);
 NTP: (US National Toxicology Program);
 RTECS: (Registry of Toxic Effects of Chemical Substances);
 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);
 IATA: (International Air Transport Association);
 IMDG: (International Maritime Dangerous Goods);
 TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

End of report