
MSDS Report

Report No.: A001B20160812020

Samples Lithium Polymer Cell

Model 4566125A

Applicant

Issue Date 2016-08-26

深圳市鑫宇环检测有限公司

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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Material Safety Data Sheet

According to ISO11014:2009 & GB/T16483-2008

Section 1 - Chemical Product and Company Identification

Chemical product information

Sample Description: Lithium Polymer Cell

Sample Model: 4566125A

Sample Receiving Date: 2016-08-05

Sample Uses: ---

Company information

Manufacturer: [REDACTED]

Address: [REDACTED]

Tel: [REDACTED]

Fax: [REDACTED]

Post code: [REDACTED]

Emergency telephone: [REDACTED]

E-mail: [REDACTED]

Section 2 - Hazards Identification

Emergency overview: No information available.

Classification according to GHS: Not a dangerous substance according to GHS.

Label elements	
Hazard pictogram(s)	No available
Signal word	No available
Hazard statement(s)	No available
Precautionary statement(s)	
Prevention	No available
Response	No available
Disposal	No available

Physical and chemical risk: No information available.

Health hazard: No information available.

Environmental hazards: No information available.

Other hazards: No information available.

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Section 3 - Composition, Information on Ingredients

Classification of the substance or mixture:
 substance mixture

Chemical Composition	CAS No.	EC#	Weight (%)
LiCoO ₂	12190-79-3	235-362-0	40
(CH ₂ CF ₂) _n	24937-79-9	200-867-7	3
C	7782-42-5	231-955-3	18
LiPF ₆	21324-40-3	244-334-7	3
EC	96-49-1	202-510-0	10
DEC	105-58-8	212-786-4	5
PC	108-32-7	203-572-1	1
nCH ₂ =CH ₂	9002-88-4	200-815-3	1
Cu	7440-50-8	231-159-6	12
Ni	7440-02-0	231-853-9	1
Al	7429-90-5	231-072-3	6

Note: CAS: Chemical Abstracts Service (Division of the American Chemical Society).

EC#: European Inventory of Existing Commercial Chemical Substances

“---”: No Data

Section 4 - First Aid Measures

General information: No special measures required.

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

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

After swallowing: Do not induce vomiting. Get medical attention.

The main symptoms: No relevant details information.

Health effects: No relevant details information.

To protect the rescuers advice: No relevant details information.

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

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Section 5 - Fire Fighting Measures

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

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 clothes proximity.

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6 - Accidental Release Measures

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

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

Steps to be taken in case material is spilled or released and Waste disposal method: 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. All waste must refer to the United Nations, the national and local regulations for disposal.

To prevent the secondary disasters prevention measures:

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. Keep away from heat, avoiding the long time of

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sunlight.

Section 8 - Exposure Controls, Personal Protection

Occupational exposure limit

Ingredients with limit values that require monitoring at the workplace:

12190-79-3 Lithium Cobalt Oxide

TLV (USA)	0.02mg/m ³ .
MAK(Germany)	0.1mg/m ³ .

Note:TLV: Threshold Limit Value

Biological limit: no relevant details information.

Detection: no relevant details information.

Engineering control

General protective and hygienic measures: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.

Respiratory Protection: Use suitable respirator when high concentrations are present.

Personal Protection

Protection of hands	Eye protection
 <i>Protective gloves</i>	 <i>Tightly sealed goggles</i>

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Silvery
Form	Prismatic
Odour	Odorless.
Electrical properties information	
Voltage	3.7V
Electric capacity	4000mAh
Watt-hour	14.8Wh

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Section 10 - Stability and Reactivity

Chemical stability: Stable in normal circumstances.

Possibility of hazardous reactions: Data not available.

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

Incompatibilities: Oxidizing agents, acid, base.

Hazardous Combustible Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity LD/LC50 Values relevant for classification: Not available.

Note: LC50: lethal concentration, 50 percent kill

LD50: lethal dose, 50 percent kill

Skin irritation/corrosion: No further relevant information available.

Eyes stimulus/corrosion: No further relevant information available.

Breathing or skin irritation: No further relevant information available.

Germ cell respectively: No further relevant information available.

Carcinogenicity: No further relevant information available.

Reproductive toxicity: No relevant details information.

Specific target organ system toxicity disposable contact: No further relevant information available.

Specific target organ system toxicity, repeated contact: No further relevant information available.

Inhalation hazard: No further relevant information available.

Potentially harmful effects: No further relevant information available.

Section 12 - Ecological Information

Ecological toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecological effects

Additional ecological information

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

Other adverse effects: No further relevant information available.

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Section 13 - Disposal Considerations

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

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

Section 14 - Transport Information

	IATA	IMDG
UN Number	UN3480	N/A
UN Proper shipping name	Lithium Ion Batteries	N/A
Transport hazard class(es)	9	N/A
Packing group	N/A	N/A
Marine pollutant	No	

Note: IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

Transport information: The Lithium Battery (4566125A 3.7V 4000mAh) has passed the test UN38.3, according to the report ID: A001B20160812017.

According to the Packing Instruction 965 section IB of IATA DGR 57th Edition for transportation. The report ID which provided by Beijing DGM Air Transport Technology Co.,Ltd:

PEKGZ20160826008GA0001.

According to the special provision 188 of IMDG (37-14) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (19th). The products are not subject to dangerous goods.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at <http://www.labelmaster.com>.

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

Transport Fashion: By air, by sea.

Section 15 - Regulatory Information

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
LiCoO ₂	12190-79-3	Listed	Listed	Listed	Listed
(CH ₂ CF ₂) _n	24937-79-9	Listed	Listed	Listed	Listed
C	7782-42-5	Listed	Listed	Listed	Listed
LiPF ₆	21324-40-3	Listed	Listed	Listed	Listed
EC	96-49-1	Listed	Listed	Listed	Listed
DEC	105-58-8	Listed	Listed	Listed	Listed
PC	108-32-7	Listed	Listed	Listed	Listed
nCH ₂ =CH ₂	9002-88-4	Listed	Listed	Listed	Listed
Cu	7440-50-8	Listed	Listed	Listed	Listed
Ni	7440-02-0	Listed	Listed	Listed	Listed
Al	7429-90-5	Listed	Listed	Listed	Listed

Note: EINECS: European Inventory of Existing Chemical Substances

ELINCS: European List of Notified Chemical Substances

DSL: Canadian Domestic Chemical Substances

IECSC: Inventory of Existing Chemical Substances in China

NDSL: Canadian non-domestic Chemical Substances

TSCA: Toxic Substances Control Act of USA

Section 16 - Additional Information

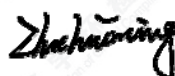
Declare to reader

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Prepared by



Checked by



Approved by



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End of report

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