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Report No.: H07033029216D~1

MSDS Report

Samples Lithium Polymer Battery Pack (PL716583)

Client Wewin Battery Technology Co., Ltd.

Client Address Wewin Battery Hi-tech Park, Qinglong Road,
Changjiang Industrial Zone, Economic Development
Area of Xianning, Hubei P.C.

No.: H07033029216D
Code: d3f08gp



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Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Lithium Polymer Battery Pack**Battery Type:** PL716583**Manufacturer:** Wewin Battery Technology Co., Ltd.**Address:** Wewin Battery Hi-tech Park, Qinglong Road, Changjiang Industrial Zone,
Economic Development Area of Xianning, Hubei P.C.**Post Code:** 437100**Tel:** 0715-8206692**Emergency Telephone:** 0715-8206692**Fax:** 0715-8206698**E-mail:** cealyn5277@sina.cn

Section 2 - Composition/Information on Ingredient

Chemical Composition	Chemical Formula	CAS No.	Weight (%)
Lithium Cobalt Oxide	LiCoO ₂	12190-79-3	32
Aluminum Foil	Al	7429-90-5	3.6
Graphite	C	7782-42-5	19
Copper Foil	Cu	7440-50-8	6.1
Electrolyte	---	---	13
Aluminum Plastic Composite Film	Al	7429-90-5	15
Others	---	---	11.3

Section 3 - Hazards Identification

Health Hazards (Acute and Chronic)

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided.

Sign/Symptoms of Exposure



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A shorted lithium battery can cause thermal and chemical burns upon contact with the skin.

Section 4 - First Aid Measures

Eye

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation

Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion

Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

Section 5 - Fire Fighting Measures

Flash Point: N/A.

Auto-Ignition Temperature: N/A.

Extinguishing Media

Dry chemical, CO₂.

Special Fire-Fighting Procedures

Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Cell may vent when subjected to excessive heat-exposing battery contents.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 6 - Accidental Release Measures

Steps to be Taken in case Material is Released or Spilled

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the batteries to cool and vapors to dissipate. Provide maximum



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ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

Waste Disposal Method

It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

Section 7 - Handling and Storage

The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Other Precautions

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

Section 8 - Exposure Controls, Personal Protection

Respiratory Protection

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting batteries. Respiratory Protection is not necessary under conditions of normal use.

Ventilation

Not necessary under conditions of normal use.

Protective Gloves

Not necessary under conditions of normal use.

Other Protective Clothing or Equipment

Not necessary under conditions of normal use.

Personal Protection is recommended for venting batteries: Respiratory Protection,



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Protective Gloves, Protective Clothing and safety glass with side shields.

Section 9 - Physical and Chemical Properties

Nominal Voltage: 3.7V.**Rated Capacity:** 8400mAh.**Appearance Characters:** Silver, quadrate, odorless, solid battery.**Chemical Uses:** Mobile power.

Section 10 - Stability and Reactivity

Stability

Stable

Conditions to Avoid

Heating, mechanical abuse and electrical abuse.

Hazardous Decomposition Products

N/A.

Hazardous Polymerization

N/A.

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

Section 11 - Toxicological Information

Inhalation, skin contact and eye contact are possible when the battery is opened. Exposure to internal contents, the corrosive fumes will be very irritation to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

Section 12 - Ecological Information

When promptly used or disposed the battery does not present environmental hazard. When disposed, keep away from water, rain and snow.

Section 13 - Disposal Considerations



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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

If batteries are still fully charged or only partially discharged, they can be considered a reactive hazardous waste because of significant amount of uncreated, or unconsumed lithium remaining in the spent battery. The batteries must be neutralized through an approved secondary treatment facility prior to disposal as a hazardous waste. Recycling of battery can be done in authorized facility, through licensed waste carrier.

Section 14 - Transport Information

The Lithium Polymer Battery Pack (PL716583) has passed the test UN38.3, according to the report ID: W09033040621D and W09033040621D~1.

According to Packing Instruction 967 section II of IATA DGR 54th Edition for transportation.

According to the special provision 188 of IMDG. 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.

Note: Batteries weight in the package <5kg(By air, Batteries installed in equipment).

Transport Fashion: By air, by sea.

Section 15 - Regulatory Information

Law Information

《Dangerous Goods Regulation》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous goods》

《Occupational Safety and Health Act》(OSHA)

《Toxic Substances Control Act》(TSCA)

《Consumer Product Safety Act》(CPSA)



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《Federal Environmental Pollution Control Act》(FEPCA)
 《The Oil Pollution Act》(OPA)
 《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》(SARA)
 《Resource Conservation and Recovery Act》(RCRA)
 《Safety Drinking Water Act》(CWA)
 《California Proposition 65》
 《Code of Federal Regulations》(CFR)

In accordance with all Federal, State and Local laws.

Section 16 - Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Prepared by: *Zuo Jingjing* Checked by: *Wangzhimin* Approved by: *P. Ye*

MSDS Creation Date: July 4, 2013

*** End of report ***

Material Safety Data Sheet

Issued on 10/28/2014

Section 1 : Product & Company Identification

Product Name: Lithium Ion Polymer Rechargeable Battery Pack

Company : Verbatim Americas, LLC

Address : 1200 West WT Harris Blvd, Charlotte, NC

Section 2 : Composition/Information on Ingredients

Part	Materials
1. Rechargeable Battery	Lithium Manganese Nickel Cobalt Oxide, Graphite, Electrolyte
2. External housing	Polycarbonate

Section 3 : Hazards Identification

Hazard Classification : Not applicable

Physical and Chemical Hazards: Not applicable

Section 4 : First-Aid Measures

The product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required.

Inhalation: Content of an opened battery can cause respiratory irritation.

Provide fresh air and get a medical treatment immediately.

Skin Contact: Wash the contact areas off immediately with plenty of water and soap.

If appropriate procedures are not taken, this may cause sores on the skin.

Eye Contact: Flush the eyes with plenty of clean water for at least 15 minutes

immediately, without rubbing. Take a medical treatment.

If appropriate procedures are not taken, this may cause an eye irritation.

Section 5 : Fire Fighting Measures

Extinguishing Method: Since vapor, generated from burning batteries may make eyes, nose and throat irritate, be sure to extinguish the fire on the windward side.

Wear the respiratory protection equipment in some cases.

Fire Extinguishing Agent: Dry chemical, alcohol-resistant foam, carbon dioxide and plenty of water are effective.

Section 6 : Accident Release Measures

Measures for electrolyte leakage from the battery pack: Take up with absorbent cloth and move the battery away from the fire.

Section 7 : Handling and Storage

Handling: Avoid the following items.

Disassembly, mechanical impact, fire, water, corrosives and exposure to high temperature.

Storage: Avoid high temperature exceeding 35 degree C, direct sunlight or high humidity.

Section 8 : Exposure Controls , Personal Protection

Exposure Limits: Not available.

Personal Protection: Not required.

Section 9 : Physical and Chemical Properties

Physical State and Appearance: Solid

Odor : No odor

Boiling Point : Not available

Melting Point : Not available

Critical Temperature : Not available

Flash Point : Not available

Vapor Pressure : Not available

Volatility : Not available

Solubility : Insoluble in water

Section 10 : Stability and Reactivity

Since batteries utilize a chemical reaction they are actually considered a chemical product. As such, battery performance will deteriorate over time even if stored for a long period of time without being used. In addition, the various usage conditions such as charge, discharge, ambient temperature, etc. are not maintained within the specified ranges the life expectancy of the battery may be shortened or the device in which the battery is used may be damaged by electrolyte leakage.

Section 11 : Toxicological Information

This product does not elicit toxicological properties during handling and use.

Section 12 : Ecological Information

When properly used or disposed, this product do not present environmental hazard.

Section 13 : Disposal Considerations

When the battery is worn out, dispose of it under the ordinance of each local government or the law issued by relating government. Disposal of the worn-out battery may be subjected to Collection and Recycling Regulation.

Section 14 : Transport Information

Avoid high temperature and humidity.

Section 15. Regulatory Information

The international regulations on air transportation of rechargeable Lithium Ion batteries (commercial and cargo) are governed mainly by the following regulations

International Conventions	<ul style="list-style-type: none"> * Air - IATA (International Air Transport Association) Dangerous Goods Regulations(DGR) 52th Edition Effective January 2011. * Air - ICAO (International Civil Aviation Organization) Technical Instructions for the safe transport of dangerous goods by air. * Sea – IMDG (International Maritime Dangerous Goods) regulations * Land – ADR (road), RID (rail) <p>United Nations “Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, Part III, Subsection 38.3, (Tests T1-T8), November 1, 2006.</p>
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	United Nations “Recommendations on the Transport of Dangerous Goods, Model Regulations –Dec. 2006, Ref. ST/SG/AC.10/34/Add.1” United Nations “Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria Dec. 2006 – Ref. ST/SG/AC.10/34/Add.2“
USA	* Code of Federal Regulations (49CFR Ch. 1 & 173 -185) Both IATA and ICAO Special Provision A45 and IMO Special Provision 188, are identical to the requirements of

Section 16. Other Information

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.

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