Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Li-ion polymer battery

Model: WD6548118

Trademark:

Company:

Address:

Emergency Telephone:

2. HAZARDS IDENTIFICATION

Most important hazards: The product is not classified as dangerous in accordance with Regulation (EC) 1272/2008, Regulation (EC) 453/2010 and Regulation EC 1907/2006 (REACH) Annex II.

Environmental properties: Not hazardous.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical composition	CAS No.	Weight (%)
Lithium cobalt oxide(CoLiO2)	12190-79-3	45.99
Copper	7440-50-8	9.98
Graphite	7782-42-5	19.66
Ethylene carbonate	96-49-1	13.84
Phosphate(1-), hexafluoro-, lithium	21324-40-3	2.96
Aluminum foil	7429-90-5	7.57

4. FIRST AID MEASURES

Inhalation: No special measures as there is no hazard for normal contact. Concentrated powder or dust from processing may cause unpleasant obstruction in the nasal passages. Remove to fresh air.

Skin contact: Not applicable for finished product.

Eye contact: No special measures as there is no hazard for normal contact.

Ingestion: Do not induce vomiting without professional instruction. Get medical attention immediately.

Additional advice: Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical powder, sandy soil. Avoid using water and carbon dioxide.

Specific hazards: No information available.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear personal protective equipment. Ensure adequate ventilation.

Environmental precautions: Do not flush into surface water.

Methods for cleaning up: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Avoid long-time direct contact of sunlight.

Handling:
Prohibited disassemble, impact, crush, short-circuit the “+”/”-“ of the battery in any way.
Non-contact with the liquid or use and store the battery in a high/low temperature environment.
Don’t use non-original/adapter to charge the battery.
Don’t store the battery for long periods of low voltage, should charge it regularly when not in use for a long time.
Workers must wear proper protective equipments and must operate strictly according to relative rules.
Packaging material: Keep in properly labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hand protection: Wear appropriate gloves to prevent skin exposure.
Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles.
Hygiene measures: Use only in area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Voltage: 3.7 V.

Capacity: 5000 mAh.
Appearance: Silver, rectangle, odorless, Li-ion polymer battery.

State of Charge in Delivery (SoC): <30 % charged (Powerbank condition)

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.
Hazardous decomposition products: No information available.
Materials to avoid: Oxidising agents, strong acids and alkalis if batteries rupture.
Conditions to avoid: Heat, damp air, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Inhalation, skin contact and eye contact are possible when the battery is not 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.

12. ECOLOGICAL INFORMATION

Bioaccumulation: No data available. If Manganese concentration reach to 0.1 mg/L in the water, BoD5 will reduce.
Ecotoxicity effects: If Chromium concentration reach to 1mg/L in the water, BoD5 will reduce 18 %.
Mobility: Mobility.

13. DISPOSAL CONSIDERATIONS

Waste from residues:
Do not allow product to reach sewage system.
Do not throw it into any open bodies of water.
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Transport information: The Li-ion polymer battery (WD6548118) has passed the test UN38.3, according to the report ID: T1870105 02.
According to PACKING INSTRUCTION 965 of IATA DGR 58th Edition for transportation, the special provision 188 of IMDG, or the Technical Instructions for the Safe Transport of Dangerous Goods (TI).
More information concerning shipping, testing, marking and packaging can be obtained from Label master at http://www.labelmaster.com.
Transport Fashion: By air, by sea, by railway, by road.

15. REGULATORY INFORMATION

Labelling: The product is not classified as dangerous in accordance with Regulation (EC) 1272/2008, Regulation (EC) 453/2010 and Regulation EC 1907/2006 (REACH) Annex II.

Symbol(s): No data available.

R-phrase(s): No data available.

S-phrase(s): No data available.

16. OTHER 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.

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