

MSDS Report

Prepared For :	Shenzhen Utopia-Originality Technology Co., Ltd Floor 4, Floor 3, Building 2, Gushu Jin Wan Village Xixiang Sub-district, Bao'an District, Shenzhen	
Product Name:	Power Bank	
Model:	W1011	(C)
Nominal Voltage:	Input: DC 5V Output: DC 5V	
Typical Capacity:	10000mAh, 37Wh	
Weight:	277.6g	
Dimension :	149.2mm×62.0mm×23.2mm (L×W×T)	
Prepared By :	Shenzhen TCT Testing Technology Co., Ltd. 1F, No.1 Building, No.1 Chongqing Road, Yibaolai Industrial Park,Qiaotou Village, Fuyong Town, Baoan District, Shenzhen	
Report No.:	TCT160122M046	

Written by: Cevily Ling Approved by:

Inspected by: Carol Xiona Date:

Report No.: TCT160122M046



Section 1- Chemical Product & Company Identification

Product Name: Power Bank

Manufacture: Shenzhen Utopia-Originality Technology Co., Ltd

Address: Floor 4, Floor 3, Building 2, Gushu Jin Wan Village Xixiang Sub-district,

Bao'an District, Shenzhen

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Item Code: TCT160122M046

Section 2- Hazards Identification

Preparation hazards	Not dangerous with normal use. Do not dismantle, open or shred Polymer Lithium ion Battery the ingredients contained within or their ingredients products could be harmful.	
and classification		
Appearance, Color, Odor	Solid object with no odor, no color.	
Primary Route(s) of Exposure	These chemicals are contained in a sealed stainless steel enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact	
Potential Health Effects:	ACUTE (short term): see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns.	
	Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation.	
	Ingestion: Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.	
.)	Skin: Contact between the battery and skin will not cause any harm. Skin contact	

Report No.: TCT160122M046 Page 2 of 9
Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com



	with contents of an open battery can cause severe irritation or burns to the skin. Eye: Contact between the battery and the eye will not cause any harm. Eye contact with contents of an open battery can cause severe irritation or burns to the eye. CHRONIC (long term): see Section 11 for additional toxicological data		
Medical Conditions Aggravated by Exposure	Not applicable		
Reported as carcinogen	Not applicable		

Section 3- Composition/Information on Ingredients

Li-ion Battery (Contained In Power Bank) is a mixture

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide (CoLiO2)	15-40	12190-79-3
Graphite	10-30	7782-42-5
Phosphate(1-), hexafluoro-, lithium	10-30	21324-40-3
Copper	7-13	7440-50-8
Aluminum foil	5-10	7429-90-5
Nickel	1-5	7440-02-0

Labeling according to EC directives.

No symbol and risk phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Report No.: TCT160122M046 Page 3 of 9
Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Section 4- First Aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
Eye contact	If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.

Section 5- Fire Fighting Measures

	Flammable Properties	In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.	
	Suitable extinguishing Media	Use extinguishing media suitable for the materials that are burning.	
	Unsuitable extinguishing Media	Not available	
Explosion Sensitivity to Mechanical Impact: This may result in rupture in a Sensitivity to Static Discharge: Not Applicable		Sensitivity to Mechanical Impact: This may result in rupture in extreme cases Sensitivity to Static Discharge: Not Applicable	
	Specific Hazards arising from the chemical	Fires involving Polymer Lithium ion Battery can be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire	
	Protective Equipment and precautions for firefighters	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.	

Report No.: TCT160122M046 Page 4 of 9
Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com





NFPA Health: 0 Flammability: 0 Instability: 0

Section 6- Accidental Release Measures

Personal Precautions, protective equipment, and emergency procedures	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

Section 7- Handling and Storage

Handling	Don't handling Polymer Lithium ion Battery with metalwork. Do not open, dissemble, crush or burn battery. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and fires: Keep ignition sources away- Do not smoke.
Storage	If the Polymer Lithium ion Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Polymer Lithium ion Battery periodically. 3 months: -10°C~+40°C, 45 to 85%RH And recommended at 0°C~+35°C for long period storage. The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is
	assumed to be 80% or more. The voltage for a long time storage shall be 3.7V~4.2V range. Do not storage Polymer Lithium ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. Keep out of reach of children.

Report No.: TCT160122M046 Page 5 of 9
Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Do not expose Polymer Lithium ion Battery to heat or fire. Avoid storage in direct sunlight.
Do not store together with oxidizing and acidic materials.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor.
	Keep away from heat and open flame. Store in a cool, dry place.
Personal Protective Equipment	Respiratory Protection: Not necessary under normal conditions.
	Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitride rubber gloves if handling an open or leaking battery.
	Hand protection: Wear neoprene or natural rubber material gloves if handling an open or leaking battery.
	Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9-Physical and Chemical Properties

D	Form: Solid	
Physical	Color: Black/White/Fluorescence green/Watermelon red/Blue	
State Odour: Monotony		
Change in	n condition:	
pH, with inc	dication of the concentration	Not applicable
Melting poi	nt/freezing point	Not available.
Boiling Point, initial boiling point and Boiling range:		Not available.
Flash Point		Not available.
Upper/lower flammability or explosive limits		Not available.
Vapor Pressure:		Not applicable
Vapor Dens	sity: (Air = 1)	Not applicable
Density/relative density		Not available.
Solubility in Water:		Insoluble
n-octanol/w	rater partition coefficient	Not available.
Auto-ignition temperature		130°C

Report No.: TCT160122M046 Page 6 of 9
Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Decomposition temperature	Not available.
Odout threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not applicable.

Section 10 - Stability and Reactivity

Stability	The product is stable under normal conditions.	
Conditions to Avoid (e.g. static discharge, shock or vibration)	Do not subject Polymer Lithium ion Battery to mechanical shock. Vibration encountered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.	
Incompatible Materials	Not Available	
Hazardous Decomposition Products	This material may release toxic fumes if burned or exposed to fire	
Possibility of Hazardous Reaction	Not Available	

Section 11 - Toxicological Information

Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.
Sensitization	Not Available
Neurological Effects	Not Available
Teratogenicity	Not Available
Reproductive Toxicity	Not Available
Mutagenicity (Genetic Effects)	Not Available
Toxicologically Synergistic Materials	Not Available

Section 12-Ecological Information

General note:	Water hazard class 1(Self-assessment): slightly hazardous for water.
	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Anticipated behavior of a chemical	Not Available

Report No.: TCT160122M046 Page 7 of 9

Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct.lab.com

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product in environment/possible environmental impact/ ecotoxicity	(3) (5)
Mobility in soil	Not Available
Persistence and Degradability	Not Available
Bioaccumulation potential	Not Available
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Product disposal recommendation	Observe local, state and federal laws and regulations.
Packaging disposal recommendation	Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.
Packaging disposal recommendation	The potential effects on the environment and human health of the substances used in batteries and accumulators; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling.

Section 14 – Transport Information

UN number	3480	
UN Proper shipping name	LITHIUM ION BATTERIES (Including lithium ion polymer batteries)	
Transport hazard class(es)	9	
Packing group (if applicable)	<u>.</u>	
Marine pollutant (Yes/No)	No	
Transport in bulk (according to Annex II of	No information available.	
MARPOL 73/78 and the IBC Code)	INO IIIIOITTIALIOIT available.	

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Report No.: TCT160122M046 Page 8 of 9
Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Transport information: The transportation of primary lithium cells and batteries is regulated by the International Air Transport Association (According to Section II/Section IB of PACKING INSTRUCTION 965 of IATA DGR 57th Edition for transportation), International Civil Aviation Organization, International Maritime Dangerous Goods Code and the US Department of Transportation.

The batteries must meet the following criteria for shipment:

Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185.

The transport of primary lithium batteries is prohibited aboard passenger aircraft.

Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the

Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "IATA-DGR" or "special provision 188 of IMO-IMDG Code".

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

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

Section 15 – Regulatory Informatior	Section	15 –	Regulatory	Information
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OSHA hazard communication standard (29 CFR 1910.1200)

_____ Hazardous _____ √ ___ Non-hazardous

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

******End of report*****

Report No.: TCT160122M046

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Page 9 of 9