MATERIAL SAFETY DATA SHEET MSDS
XCell Powerbank X20000PD

Nominal Voltage	Input: 5V, Output: 5V
Rated Capacity	20000mAh, 74Wh
Weight	419.4g
Size (L×W×T)	(148.6×69.0×28.0)mm
Report No.	TCT221208M106

1. Hazards Identification

Classification of Danger	See section 13.
Primary Route(s) of Exposure	Eye, skin contact, ingestion.
Health Hazard	The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.

2. Composition/Information on Ingredients

Chemical Name	Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide	30-60	12190-79-3
Graphite	10-30 7782-42-5	7782-42-5
Phosphate(1-), hexafluoro-, lithium	10-30	21324-40-3
Copper	5-10	7440-50-8
Aluminum foil	1-5	7429-90-5
Nickel	1-5	7440-02-0
PVC (Chloroethylene, polymer)	1-5	9002-86-2

Labeling according to EC directives.
No symbol and Hazard phrase are required.
Note: CAS number is Chemical Abstract Service Registry Number.
N/A=Not apply.

3. 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	Ingesting damaged batteries, do not induce vomiting or give food or drink. Seek medical attention immediately.

4. Fire Fighting Measures

Characteristics of Hazard	Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes.
Hazardous Combustion Products	Carbon dioxide.
Fire-extinguishing Methods and Extinguishing Media	For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.
Attention in Fire-extinguishing	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

All data contained herein is for single cell and may vary for cell with specific configuration, subject to change without prior notice.

5. Accidental Release Measures

Personal Precautions, protective equipment, and emergency procedures

In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 6 and 7.

Environmental Precautions

Prevent product 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.

6. Handling and Storage

Handling

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

Storage

Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.

Other Precautions

In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

7. Exposure Controls/Personal Protection

Engineering Controls

Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m3 respirable fraction (10mg/m3 total) should be observed.

Personal Protective Equipment

Eye and Face Protection: None required for consumer use. If there is a Hazard of contact:
Tight sealing safety goggles. Face protection shield.
Skin and Body Protection: None required for consumer use. If there is a Hazard of contact:
Wear protective gloves and protective clothing.
Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

8.Physical and Chemical Properties

Physical State	Appearance: Prismatic, Odour: If leaking, smells of medical ether.
Change in condition:	
pH	Not applicable as supplied.
Flash Point	Not applicable unless individual components exposed.
Flammability	Not applicable unless individual components exposed.
Relative density	Not applicable unless individual components exposed.
Solubility (water)	Not applicable unless individual components exposed.
Solubility (other)	Not applicable unless individual components exposed.

9. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids, Oxidizing agents, Bases.
Hazardous Decomposition Products	Carbon oxides.

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10. Toxicological Information

Irritation	In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
Sensitization	Not Available.
Reproductive Toxicity	Not Available.
Toxicologically Synergistic Materials	Not Available.

11. Ecological Information

General note: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity
Not Available.

12. Disposal Considerations

Waste Treatment	Recycle or dispose of in accordance with government, state & local regulations.
Attention for Waste Treatment	Deserted batteries shouldn‘t be treated as ordinary trash. Shouldn‘t be thrown into fire or placed in high temperature. Shouldn‘t be dissected, pierced, crushed or treated similarly. Best disposal method is recycling.

13. Transport Information

UN number	3480
Proper shipping name	Lithium ion batteries (limited to a maximum of 30% SoC)
Label(s) / Placard Required	Miscellaneous, Lithium batt

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.

ICAO / IATA: Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IB appropriate of IATA DGR 64th (2023 Edition) for transportation.

IMDG CODE: The batteries are not restricted to IMDG Code 2020 Edition (Amdt 40-20) according to special provision 188.

DOT: Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.

ADR/ ADN: The batteries are not subject to the provisions of United Nations Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3. Applicable as from 1 January 2023.

In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

14. Regulatory Information

Dangerous Goods Regulations
Recommendations on the Transport of Dangerous Goods-Model Regulations (22nd revised edition)
Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria
International Air Transport Association (IATA)
International Maritime Dangerous Goods (IMDG Code 2020 Edition Amdt 40-20)
Technical Instructions for the Safe Transport of Dangerous Goods
Classification and code of dangerous goods (GB 6944-2012)
2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Toxic Substance Control Act (TSCA)
Code of Federal Regulations
In accordance with all Federal, State and local laws

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15. Additional Information

MSDS creation date: 2023 Version: 1.0
Sample photo:





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

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