



# MATERIAL SAFETY DATA SHEET

**Reference No**..... : WTX21D10116699B002  
**Applicant**..... : SYSMAX Innovations Co., Ltd.  
**Address**..... : Rm 2601-06, Central Tower, NO.5 Xiancun Road, Tianhe District,  
Guangzhou, 510623, Guangdong, China  
**Manufacturer**..... : Sysmax Power Technology.LLC  
**Address**..... : B4 Happy Factory, 81 East Huahong Commercial Street, North Zhenxing  
Road, Gaobu Dongguan, China  
**Sample's name**..... : Power Bank  
**Date of Issue**..... : 2022-01-05

**Prepared By:**

**Waltek Testing Group Co., Ltd.**

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China

Tel:+86-769-2267 6998

Fax:+86-769-2267 6828

Compiled by:

Jason Zhen / Project Engineer

Approved by:

Deval Qin / Designated Reviewer



## Material Safety Data Sheet

### Section 1-Chemical Product and Company Identification

<b>Product Name:</b>	Power Bank
<b>Model No.:</b>	NB10000
<b>Ratings</b>	10000mAh, 38.5Wh
<b>Weight:</b>	Approx. 152.4g
<b>Manufacturer:</b>	Sysmax Power Technology.LLC
<b>Address:</b>	B4 Happy Factory, 81 East Huahong Commercial Street, North Zhenxing Road, Gaobu Dongguan, China
<b>Emergency Telephone:</b>	0769-82660898
<b>Fax:</b>	0769-82690896
<b>Email:</b>	525874853@qq.com

### Section 2-Hazards Identification

<b>Classification:</b>	Not dangerous with normal use. Do not dismantle, open or shred battery. The hazards indicated are for a ruptured battery. Exposure to the ingredients contained within or their ingredients products could be harmful.
<b>Appearance, Color and odor</b>	Solid object with no odor, no color.
<b>Invasion route:</b>	<p><b>ACUTE:</b> 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.</p> <p><b>Skin contact:</b> The leakage of the electrolyte may cause sore and stimulation on the skin</p> <p><b>Eye contact:</b> The steam of the electrolyte may stimulate eyes. Especially, substance that may cause inflammation of the eyes is contained</p> <p><b>Inhalation:</b> 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.</p> <p><b>Ingestion:</b> Swallowing is not anticipated due to the battery size. The ingestion of the electrolyte causes tissue damage to throat</p>
<b>Health hazards:</b>	For the battery or cell, chemical materials are stored in a sealed metal or metal laminated plastic case, which designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition, explosion or leakage of hazardous materials. However, if exposed to a fire, added mechanical shocks or decomposed, these improper handlings would cause the leakage of electrolyte. Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted
<b>Environment hazards:</b>	Electrolyte leakage or battery container rupture may lead to the leakage of inner component into the environment
<b>Burn &amp; burst danger:</b>	Do not dispose of battery in fire--may explode. Do not short-circuit the battery—may cause fire

**Section 3 – Composition/information on Ingredient**Pure  Admixture 

Chemical Composition	Molecular Formula	CAS No.	Weight ( % )
Lithium Cobalt Oxide	LiCoO <sub>2</sub>	12190-79-3	36
Aluminum	Al	7429-90-5	8
Graphite	C	7782-42-5	15
Copper	Cu	7440-50-8	10
Phosphate(1-), hexafluoro-, lithium	N/A	21324-40-3	10
Ethylene carbonate	N/A	96-49-1	9
Other	N/A	N/A	12

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

**Section 4 – First Aid Measure**

<b>Skin touch:</b>	Remove all contaminated clothing and flush extraneous matter with soap and plenty of water immediately for at least 15 minutes. Get medical aid.
<b>Eyes touch:</b>	In case of contact electrolyte with eyes, rinse immediately with plenty of water. Have the victims remove contact lenses if he is wearing them before rinsing. Do not let the victims rub his eyes. Get medical aid.
<b>Inhalation:</b>	Remove to fresh air. Give oxygen or artificial respiration if needed. Get medical aid.
<b>Ingestion:</b>	Swallowing is not anticipated in normal condition. If accidentally eat the product, dilute by giving plenty of water and get medical aid. Assure that mucus does not obstruct the airway. Do not give anything by mouth to an unconscious person

**Section 5 – Fire Fighting measures**

<b>Danger characteristic:</b>	Non-flammable. The batteries can leak combustible electrolyte fumes in case of over heat resulting from inappropriate use.
<b>Hazardous combustion products:</b>	Irritant gas may be emitted if burned or exposed to fire
<b>Hazardous combustion products:</b>	Irritant gas may be emitted if burned or exposed to fire
<b>Fire-Fighting method &amp; media:</b>	The staff must equipped with filter mask (full mask) or isolated breathing apparatus. The staff must wear the clothes and gloves which can defend the fire and the toxic gas. When the battery burns with other combustibles simultaneously, take fire-extinguishing method which correspond to the combustibles. Extinguish a fire from the windward as much as possible
<b>Extinguishant:</b>	Carbon dioxide, dry chemical, foam, etc

**Section 6 – Accidental Release Measures**

<b>Personal precautions</b>	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Other</b>	Refer to protective measures listed in section 7 and 8.



<b>Information</b>	
<b>Environmental precautions</b>	Refer to protective measures listed in Section 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

### Section 7 – Handling and storage

<b>Handling:</b>	Before handling the batteries, the users should read the product specification carefully. Do not crush, pierce the battery terminals with conductive goods. Not directly heat or solder. Do not throw in fire. Do not mix batteries of different types. Do not mix new and used batteries. Keep batteries in non-conductive trays
<b>Storage:</b>	Store batteries in cool and ventilated area away from sources of heat, open flames, corrosive chemicals, food and drink. Since short circuit can cause burn, leakage and rupture, keep batteries in original packaging until use and do not jumble them. Keep away from children

### Section 8 – Exposure controls, Personal Protection

<b>Maximum admissible concentration:</b>	No information is available
<b>Monitoring Method:</b>	Use ventilation or other monitoring devices to control temperature, humidity and fumes
<b>Engineering Control:</b>	Use ventilation or other monitoring devices to control temperature, humidity and fumes
<b>Respiratory Protection:</b>	Not necessary under normal use. In case of battery rupture, use self-contained respiratory equipment
<b>Eyes/face Protection:</b>	Not necessary under normal use. Wear safety goggles if handling a leaking or ruptured batteries
<b>Skin and Body protection:</b>	Not necessary under normal use. Use rubber apron and protective clothes in case of handling a leaking or ruptured batteries
<b>Hands Protection:</b>	Not necessary under normal use. Use rubber gloves if handling a leaking or ruptured batteries
<b>Hygiene Measures:</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminate work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use.
<b>Other Protections:</b>	None

### Section 9 – Physical and Chemical Properties

<b>Physical state:</b>	Solid
<b>Color:</b>	Black
<b>Odor:</b>	Odorless
<b>pH Value:</b>	Not available
<b>Boiling point</b>	Not available



<b>/range</b>	
<b>Melting /freezing Point:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Upper flammable(explosive) limits in air-Lower (vol%)-UEL:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Specific Gravity:</b>	Not available
<b>Water Solubility:</b>	Immiscible in water
<b>Solubility in other solvents:</b>	Not available
<b>Partition coefficient (n-octanol / water):</b>	Not available
<b>Autoignition temperature</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Kinematic viscosity:</b>	Not available
<b>Dynamic viscosity:</b>	Not available
<b>Explosive properties:</b>	Not available
<b>Oxidizing properties:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Ignition temperature:</b>	No information is available
<b>Any addition information:</b>	None

### Section 10 – Stability and Reactivity

<b>Reactivity:</b>	No data is available
<b>Chemical stability:</b>	Stable under recommended storage condition
<b>Possibility of Hazardous Reactions:</b>	None under normal processing.



<b>Hazardous Polymerization:</b>	No information is available
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods.
<b>Incompatible materials</b>	Acids, Bases, Oxidizing agent.
<b>Hazardous Decomposition Products:</b>	Irritant gas may be emitted if burned or exposed to fire

### Section 11 – Toxicological Information

<b>Acute Toxicity:</b>	No information is available
<b>Sub-acute and Chronic Toxicity:</b>	Lithium ion batteries do not contain toxic materials
<b>Irritation:</b>	Irritation only occurs if the batteries are abused and it may cause irritation to skin, eyes, respiratory tract.
<b>Sensitization:</b>	No information is available
<b>Mutagenicity:</b>	No information is available
<b>Carcinogenicity:</b>	No information is available
<b>Others:</b>	None

### Section 12 – Ecological Information

<b>Eco-toxicity:</b>	When properly used and disposed, lithium iron batteries do not present environment hazard
<b>Biodegradable:</b>	No information is available
<b>Non-biodegradable:</b>	No information is available
<b>Bioconcentration or biological accumulation:</b>	No information is available
<b>Other harmful effects:</b>	None

### Section 13 – Disposal Considerations

<b>Nature of waste:</b>	No information is available
<b>Waste disposal methods:</b>	Dispose in accordance with applicable regulations which vary from country to country. In more countries the discard of used batteries is forbidden and the end-users are invited to dispose them properly. Lithium ion battery should have their terminals insulated and be preferably wrapped in plastic bags prior to disposal
<b>Contaminated Packaging:</b>	Dispose of contents/containers in accordance with local regulations.
<b>Attention abandoned:</b>	Incineration should never be performed by battery user

### Section 14 - Transport information

<b>Note:</b>	<p>This report applies to transportation of by air, by sea and by road.</p> <p>The Power Bank NB10000 has passed the test Section 38.3 of Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria. Report No.: WTX20S01002187B001</p> <p>The transportation of lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime</p>
--------------	--



	Dangerous Goods Code. When shipped by air, package should according to packing instruction 965~967 of IATA DGR 63rd Edition for transportation. When shipped by sea, package should according to packing instruction P903 of IMDG CODE 40-20 Edition for transportation. When shipped by road, package should according to packing instruction P903 of European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) for transportation.
<b>UN Number:</b>	3480
<b>Class:</b>	9
<b>Packing group:</b>	II
<b>Proper shipping name:</b>	Lithium-ion batteries shipping singly
<b>Packaging Mark:</b>	Each package must be labeled with a lithium battery label.
<b>Packaging Method:</b>	No information is available
<b>Transport Fashion:</b>	By air /By sea/By road
<b>Transport Attentions:</b>	Examine whether the package of the containers are integrate and tight-closed or not before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Don't put the goods together with corrosive chemicals. Stopovers should be away from fire and heat sources

#### Section 15 – Regulatory Information

<b>Regulatory Information:</b>	ISO 11014-2009 Safety data sheet for chemical products – Content and order of sections. GB/T 16483-2008 Safety data sheet for chemical products – Content and order of sections The international Maritime Dangerous Goods (IMDG) Code International Air Transport Association (IATA) Dangerous Goods Regulations, 63rd, 2022 The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) The Regulations Concerning the International Transport of Dangerous Goods by Rail (RID) U.S. Department of Transportation (DOT) Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
--------------------------------	---

#### Section 16 – Additional Information

<b>Additional Information:</b>	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 result 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 this particular purpose
--------------------------------	---

===== End of Report =====