

1. Chemical Product and Company Identification

Model No.: 59819

Description: PowerBank 15000 mAh QC3.0/PD/Type-C

3.7 V, 3x 5000 mAh (18.5 Wh)

Company Information: Wentronic GmbH

Brand: Goobay®

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Germany

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Prepared by: TF Checked and approved by: TL
Creation Date: 2018-11-13 Version: 1.0

2. Composition / Information on Ingredient

Chemical Name	CAS No.	Weight (%)
Cobalt Lithium Manganese Nickel Oxide	346417-97-8	41
Graphite (C)	7782-42-5	21
Electrolyte	N/A	17
Copper foil (Cu)	7440-50-8	5
Aluminium foil (AI)	7429-90-5	5
Polypropylene	9003-07-0	2
Nickel	7440-02-0	3
Polychloroprene rubber	69028-37-1	2
The diaphragm	N/A	3
PVDF	24937-79-9	0.7
Carboxymethyl cellulose	9004-32-4	0.3

3. Hazards Identification

Labeling according to EC directives.

No symbol and risk phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.



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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
161	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
3	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.

5. Fire Fighting Measures

Suitable	
extinguishing	Use extinguishing media suitable for the materials that are burning.
Media	
Unsuitable	
extinguishing	Not available
Media	
Explosion	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases
Data	Sensitivity to Static Discharge: Not Applicable
Specific	Fires involving Li-ion Cell are controlled with water. When water is used, however,
Hazards	hydrogen gas may evolve. In a confined space, hydrogen gas can form an
arising from	explosive mixture. In this situation, smothering agents are recommended to
the chemical	extinguish the fire
Protective	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a
Equipment	pressure-demand, self-contained breathing apparatus and full protective gear.
and	Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved
precautions	full-face self-contained breathing apparatus (SCBA) with full protective gear.
for firefighters	Tull-lace self-contained breathing apparatus (SCBA) with full protective gear.
NFPA	Health: 0 Flammability: 0 Instability: 0



Flammable	In the event that this battery has been ruptured, the electrolyte solution contain	
Properties	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.	

6. Accidental Release Measures

Personal Precautions, protective equipment, and	Restrict access to area until completion of
emergency procedures	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.



7. Handling and Storage

Handling	Don't handle Li-ion Cell 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 Li-ion Cell is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Li-ion Cell periodically.
	3 months: -10℃~+40℃, 45 to 85%RH
	And recommended at 0 ℃~+35 ℃ 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 store Li-ion Cell 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.
	Do not expose Li-ion Cell to heat or fire. Avoid storage in direct sunlight.
	Do not store together with oxidizing and acidic materials.

8. <u>Exposure Controls, Personal Protection</u>

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
	nitrile 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.

9. Physical and Chemical Properties

	Form: Solid	
Physical State	I Color: Silvery	
Otate		
Change in	condition:	
pH, with in	dication of the concentration	Not applicable



Melting point/freezing point	Not available.
Boiling Point, initial boiling point and Boiling	Not available.
range:	
Flash Point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure:	Not applicable
Vapor Density: (Air = 1)	Not applicable
Density/relative density	Not available.
Solubility in Water:	Insoluble
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	130°C
Decomposition temperature	Not available.
Odout threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not applicable

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 Li-ion Cell 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

11. <u>Toxicological Information</u>

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
Teratoaenicitv	Not Available
Reproductive Toxicity	Not Available
Mutagenicity (Genetic Effects)	Not Available
Toxicologically Synergistic Materials	Not Available

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 product in	Not Available
environment/possible environmental	
impace/ecotoxicity	
Mobility in soil	Not Available

Persistence and Degradability	Not Available	
Bioaccumulation potential	Not Available	
Other Adverse Effects	Not Available	



13. <u>Disposal Considerations</u>

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.

14. Transport Information

The Li-ion Cell (5565110) had passed the UN 38.3 test and is classified as non-dangerous goods and also complies with the UN Recommendations on the Transport of Dangerous Goods; IATA Dangerous Goods regulations, and applicable U.S. DOT regulations for the safe transport of Li-ion Cell.

The Li-ion Cell is transported according to the NEW PACKING INSTRUCTION 965 Section IB or 966 Section II or 967 Section II of IATA DGR 58th edition.

More information concerning shipping, testing, marking and packaging can be obtained from label master at http://www.labelmaster.com/.

Each package must be labeled with a Lithium Battery handling label.

Li-ion batteries can be treated as "Non-dangerous goods" under the United Nations Recommendations on the Transport of Dangerous Goods, Special Provision 188, provided that packaging is strong and prevent the products from short-circuit.

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations.
- The International Maritime Dangerous Goods (IMDG) Code.
- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA
- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT) Research and Special Programs Administration (RSPA)

15. Regulatory Information

OSHA hazard o	communication	standard (29 CFR	1910.1200)
	Hazardous		V	Non-hazardous



16. Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, NTEK 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.

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