Version: V1.4

# **MSDS**

### MATERIAL SAFETY DATA SHEET

Prepared For

: Ningbo Veken Battery Co., Ltd.

No.2, Area 0212, West Zone, Free Trade Zone,

Ningbo, Zhejiang Province, China

Prepared By

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: LCS190903080ASD

Written by:

), Li

Approved by:



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\* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request.

Section :	1-Chen	nical Product	and Company Ide	entification	
Product Name	Li-ion Bat				
Model	TLi028C7				
Trade Mark	alcatel				
Ratings		30mAh 11 09Wh			
Weight	3.85V, 2880mAh, 11.09Wh 46.4g				
Manufacturer	Ningbo Veken Battery Co., Ltd.				
Manufacturer address	No.2, Area 0212, West Zone, Free Trade Zone, Ningbo, Zhejiang Province, China				
Emergency Telephone	+86-574-86823151				
Fax	+86-574-86822356				
	Secti	on 2- Compo	sition Information		
Chemical Composition		CAS No.	Weight (%)	Trade Secret	
Lithium cobaltate	12190-79-3		15 - 40	*	
Graphite	7782-42-5		10 - 30	*	
Phosphate(1-), hexafluoro-, lithium	21324-40-3		10 - 30	*	
Copper	7440-50-8		7-13	*	
Aluminium	7429-90-5		5-10	*	
Nickel	7440-02-0		1-5	*	
" * " The exact p	percentage	(concentration) of co	omposition has been withheld	l as a trade secret.	
	Sec	tion 3- Hazaı	rds Identification		
Emergency overview:	r: N/A				
Classification according	to GHS	Not a dangerous s	ubstance according to GHS		
Label elements:					
Hazard pictogram(s)		Not Available			
Signal word		Not Available			
Hazard statement(s)		Not Available			

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Precautionary statement(s):				
Prevention	Not Available			
Response	Not Available			
Disposal	Not Available			
Environmental hazards:	No relevant information			
Important symptoms:	See section 11 for more information			
Section 4- First Aid Measures				
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.			
Skin contact	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	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.			
Section 5- Fire Fighting Measures				
Flash Point	N/A			
Auto-Ignition Temperature	N/A			
Extinguishing Media	H <sub>2</sub> O, CO <sub>2</sub>			
Special Fire-Fighting Procedures	Self-contained breathing apparatus			
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents			
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.			
Section 6 Applicantal Pologge Maggures				

#### Section 6- Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be ventilated meantime.

#### **Environment precautions:**

Do not allow product to reach sewage system or any water source.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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#### Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

canalization or waters.				
Section 7- Handling and Storage				
Handling	The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.  Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire.  Do not crush or puncture the battery, or immerse in liquids.			
Storage	Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.  Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.			
Other Precautions	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.			
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 suitable protective clothing and gloves if handling an open or leaking battery.  Hand protection: Wear suitable 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				
Form	Solid			
Color	Blue			
Odour	Not Available			
рН	Not Available			
Melting point/freezing point	Not Available			

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Boiling Point and Boiling range	Not Available				
Flash Point	Not Available				
Upper/lower flammability or explosive limits	Not Available				
Vapor Pressure	Not Available				
Vapor Density	Not Available				
Relative density	Not Available				
Solubility in Water	Not Available				
Auto-ignition temperature	Not Available				
Decomposition temperature	Not Available				
Evaporation rate	Not Available				
Flammability (soil, gas)	Not Available				
Viscosity	Not Available				
Section 10- Stability and reactivity					
Stability	The product is stable under conditions described Section 7				
Conditions to Avoid	Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.				
Incompatible Materials	Oxidizing agents, acid, base.				
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.				
Possibility of Hazardous Reaction	Not Available				
Sectio	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				

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Toxicologically Synergistic Materials	Not Available					
Section 12- Ecological Information						
Ecological Toxicity	Not Available					
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.					
Uncleaned packaging recommendation	Disposal must be made according to official regulations					
Section 14 – Transport Information						
Label for conveyance	Lithium Battery Label					
UN Number	UN 3480 or UN 3481					
Transport hazard class(es)	9					
Packing group						
Marine pollutant	No					
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)					
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 Section IB~II of 965 or Section II of 966 967 appropriately.					
IMDG CODE	International Maritime Dangerous Goods Code under Special Provision 188	IMDG CODE (Amdt.39-18)				
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road under Special Provision 188	ADR 2019				
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail under Special Provision 188	RID 2019				

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May be shipped without being declared as Class 9 dangerous goods, when meet to the requirements above.

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual ofTests and Criteria prior to being offered fortransport.

### Section 15- Regulatory information

#### Law information

- 《Dangerous Goods Regulations》
- 《Recommendation on the Transport of Dangerous Goods Model Regulations》
- 《International Maritime Dangerous Goods》
- 《Technical Instructions for the Safe Transport of Dangerous Goods》
- 《Classification and code of dangerous Goods》
- 《Consumer Product Safety Act》(CPSA)
- 《Federal Environmental Pollution Control Act》(FEPCA)
- 《Resource Conservation and Recovery Act》(RCRA)
- 《European Agreement concerning the International Carriage of Dangerous》
- 《Regulations concerning the International Carriage of Dangerous》

In according with all Federal, State and local laws.

#### **Section 16- Other 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.

-- End of Report --