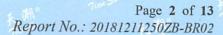


MSDS REPORT

Samples	Tu. Su	Li-ion Polymer I	Battery 100 50
Model No.	天湖。 天湖。	WH 7017351	PL FINA SE
Applicant	· 72m S"	Shenzhen Wanhong Tech	nology Co.,ltd
Address		Longhua Industry and Researc ning Road, Dalang Street. Long Guangdong, Cl	ghua District, Shenzhen,
		夫術 [®] 天湖 [®]	Tien St Tien St
Test by: Liu Cherg	天湖° 7ias Sa	Reviewed by:	Jiang Liaoxu
Date: <u>2019-01-09</u> Engineer	Tian SH	Date:	2019-01-09 Lab Manager
	Approved by:	Zbnjie	Time St
	Date:	Approved Signator	
	F.M. P. P. M. S. P. M. S. P.	Tun Su	
*********	***	The Time	

Shenzhen Tiansu Calibration and Testing Co., Ltd.





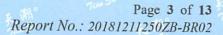
Material Safety Data Sheet

Section 1-Chemical Product and Company Identification

Section	1-Chemical Froduct and Company Identification
Product Name:	Li-ion Polymer Battery
Model No.:	WH 701735PL" Files Su Who Time Su
Manufacturer:	Shenzhen Wanhong Technology Co.,ltd
Address:	4th floor, Longhua Industry and Research Base of Xiamen University. Huaning Road, Dalang Street. Longhua District, Shenzhen, Guangdong, China
Emergency Telephone:	0755-89360956 714154 714154
Fax:	1 Fills Traisa Fills
Email:	A Time Su Time Su

Section 2- Hazards Identification

Section 2- Hazards Identification		
Preparation hazards and	Not dangerous with normal use. Do not dismantle, open or shred Li-ion Battery.	
classification:	Exposure to the ingredients contained within or their ingredients products could be	
天湖。	harmful. 7124 54 7124 54	
Appearance, Color, and	Tun S" R WILL Tu	
Odor:	Solid object with no odor, no color. A Tun Su	
Primary Route(s) of	These chemicals are contained in a sealed Aluminum plastic film. Risk of exposure	
Exposure:	occurs only if the cell is mechanically, thermally or electrically abused to the point	
Film 5"	of compromising the enclosure. If this occurs, exposure to the electrolyte solution	
2 XA2	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	
天湖° Tun	battery has been ruptured, the electrolyte solution contained within the battery	
7im 5	would be corrosive and can cause burns.	
大湖 ^c Tim Su	Inhalation: Inhalation of materials from a sealed battery is not an expected route	
710×5×	of exposure. Vapors or mists from a ruptured battery may cause respiratory	
	0.00	



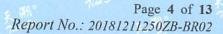


7 1011	- Tan-
7 can 52 K	irritation. 天湖。 7cm 5th
A TIMES	Ingestion: Swallowing of materials from a sealed battery is not an expected route
* Man Transa	of exposure. Swallowing the contents of an open battery can cause serious
7 M°	chemical burns of mouth, esophagus, and gastrointestinal tract.
Riffs Transu	Skin: Contact between the battery and skin will not cause any harm. Skin contact
大湖° 70	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
VA"	with contents of an open battery can cause severe irritation or burns to the eye.
天湖° Tuan Sa	CHRONIC (long term): see Section 11 for additional toxicological data
Medical Conditions	大湖。 Tian Su 大湖。 Tian Su 大湖。
Aggravated by	Not applicable
Exposure:	天湖° 7100 Sill 天湖° 天湖° 天湖° 7100 Sill 天湖° 7100 Sill 天湖° 7100 Sill 天湖° 7100 Sill Sill Sill Sill Sill Sill Sill Si
Reported as carcinogen:	Not applicable

Section 3- Composition/Information on Ingredient

2 1/11	Strion/Intol mation on in	greuient
Chemical Composition	CAS No.	Weight (%) The Su
Tian 5a MnO2 & M	1313-13-9	2%~10%
夫佛 Li · · · · · · · · · · · · · · · · · ·	7439-93-2	5° 2%~10%
Aluminum foil	7429-90-5	2%~10%
Metal Oxide (proprietary)	天Min Films - 天網。	20% ~ 50%
Styrene-Butadiene-Rubber	天雕	< 1%
Polyvinylidene Fluoride (PVDF)	24937-79-9	7 cm 54 < 5% Mil
Copper Foil	7440-50-8	2% ~ 10%
Carbon (proprietary)	7440-44-0	10% ~ 30% M
Electrolyte (proprietary)	K VIII - 7 Lan Su	10% ~ 20%

Note: CAS number is Chemical Abstract Service Registry Number.





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	Flammable Properties	In the event that this battery has been ruptured, the electrolyte solution contain
+	ian Su Ma 7ian Su	within the battery would be flammable. Like any sealed container, battery cells
1	TIME SU	may rupture when exposed to excessive heat; this could result in the release of
	KAN TEAM SH	flammable or corrosive materials.
	Suitable extinguishing	Use extinguishing media suitable for the materials that are burning.
E VIII		



		T SM X N
	Media Tues St	Filh 7can 50
A	Unsuitable extinguishing	大明 Tien 5th
4	Media que s	Not available 7000 500 大棚 7100 500 7100 500 7100 500 7100 500
	Explosion Data	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases
	K VIII 7 Jan St	Sensitivity to Static Discharge: Not Applicable
	Specific Hazards arising	Fires involving Li-Polymer Battery can be controlled with water. When water is
	from the chemical	used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can
	5·1 美洲。 7/4·5·1	form an explosive mixture. In this situation, smothering agents are recommended
-	Team St.	to extinguish the fire
	Protective Equipment and	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a
	precautions for firefighters	pressure-demand, self-contained breathing apparatus and full protective gear.
	天洲。 Nam Su	Fight fire from a protected location or a safe distance. Use NIOSH/MSHA
	天渊。	approved full-face self-contained breathing apparatus (SCBA) with full
-	天湖。 Tian Su	protective gear. The state of t
L	NFPA K	Health: 0 Flammability: 0 Instability: 0
		2 90

Section 6 - Accidental Release Measures

Section 0 – Accidental Release Measures
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.
天湖。 Film Sill 天湖。 7tm Sill 天湖。 7tm Sill 天湖。
Prevent material from contaminating soil and from entering sewers or
waterways.
Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth.
Clean up spills immediately.
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.



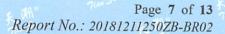
Tion Su Kith	Scrub the area with detergent and water; collect all contaminated wash water for
Than Su	proper disposal.

Section 7 - Handling and Storage

	Section 7 - Handing and Storage
Handling	Don't handling Li-ion Battery with metalwork. Do not open, dissemble, crush or
天湖。	burn battery. Ensure good ventilation/ exhaustion at the workplace. Prevent
ZWA" 7LAM	formation of dust. Information about protection against explosions and fires:
A° Ma	Keep ignition sources away- Do not smoke.
Storage:	If the batteries are subject to storage for such a long term as more than 3 months,
7 im -	it is recommended to recharge the Li-Polymer battery periodically.
天湖 [®] Tian Su	Storage Temperature
7ian - Tian	Short period less than 3 months: -20~+60°C, 75%RH Max
A 71.05 54	Long period more than 3 months: -5 °C~+35 °C,75%RH Max
大湖。 Tian Sa	Do not storage Li-Polymer battery haphazardly in a box or drawer where they
7ian Su	may short-circuit each other or be short-circuited by other metal objects. Keep
大M Tian Su	out of reach of children. Do not expose Li-Polymer battery to heat or fire. Avoid
7ian 54	storage in direct sunlight. Do not store together with oxidizing and acidic
KIM 7100 St	materials. A Tues Su Tues Su Tues Su

Section 8 - Exposure Controls, Personal Protection

Section 6 - Exposure Controls, Personal Protection		
Engineering control:	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.	
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.	
Eye protection:	Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.	

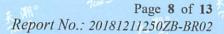




Hands protection:	Wear neoprene or natural rubber material gloves if handling an open or leaking battery.
Others protection: 7100 500	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9-Physical and Chemical Properties

Section 9-Physical and Chemical Properties			
, i	Physical State	Form: Prismatic	K VA Trans
	Film 5th	Color: Silvery	Tiens Tiens
	700°	Odor: Odorless	Ma Tian 5"
	Change in condition:	Fill Fill Su	tan Su Yuan Su
	pH, with indication of the concentration	Not applicable.	アルロSu 天 湖。 アルロSu
	Melting point/freezing	Not available. The Su Time Su Time Su Time Su Time Su	Tian St Tian St Tian St
	Boiling Point, initial	大湖。 714154 天湖。 7	can 5" X VAI
	boiling point and Boiling range:	Not available.	天VIII Tima Sii 天湖 [®]
	Flash Point	Not available.	Tian St.
	Upper/lower flammability or explosive limits	Not available.	大湖。 Tran Su Tran Su Tran Su
L	Vapor Pressure:	Not applicable.	F WITH Transa
	Vapor Density: (Air = 1)	Not applicable.	Kith Tian Su
6	Density/relative density	Not available.	FULL Su FULL
	Solubility in Water:	Insoluble.	F VPA 7 Can Su
	n-octanol/water partition	Not available on 5" F. Who	Pian Su 天開 Pian Su Pian Su
	744	3 3 7	





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Section 10 - Stability and Reactivity

Section 10 Stubinty and Reactivity		
Stability	The product is stable under normal conditions.	
Conditions to Avoid (e.g.	Do not subject Li-Polymer Battery to mechanical shock.	
static discharge, shock or	Vibration encoutered during transportation does not cause leakage, fire or	
vibration)	explosion.	
Tian Su	Do not disassemble, crush, short or install with incorrect polarity. Avoid	
KIM Trac So	mechanical or electrical abuse.	
Incompatible Materials	Not Available The Turs Turs	
Hazardous Decomposition	This material may release toxic fumes if burned or exposed to fire	
Products Figure 1	天湖。 Tuan Su 天湖。 天湖。	
Possibility of Hazardous	Not Available 7445	
Reaction Kills	天湖。 Fian Su 天湖。 Fian Su 天湖。	
	Conditions to Avoid (e.g. static discharge, shock or vibration) Incompatible Materials Hazardous Decomposition Products Possibility of Hazardous	

Section 11- Toxicological Information

	Zection 11 Toxicological Infol mation
Irritation 5	Risk of irritation occurs only if the cell is mechanically, thermally or electrically
KAN TION 54	abused to the point of compromising the enclosure. If this occurs, irritation to the
7 can Su	skin, eyes and respiratory tract may occur.



E VIII	10 Time		* *A
Sensitization	Not Available	₹ M°	7ias Sa
Neurological Effects	Not Available	天開。 7100-3	Tion Su Tion Su
Teratogenicity 700 50	Not Available	毛翔°	71ax 50 71ax 5
Reproductive Toxicity	Not Available	Ma 7tan 5	Tian Su
Mutagenicity (Genetic Effects)	Not Available	天湖 [©] 71.00 52 三湖 [©]	CON SE 大M 7CON SN 7CON SN
Toxicologically Synergistic Materials	Not Available	大湖 [®] Tian Su	天湖。 Tien SH Tien SH Tien SH

Section 12- Ecological Information

Section 12- Ecological Information		
General note	Water hazard class 1(Self-assessment): slightly hazardous for water.	
M° 7005"	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.	
Anticipated behavior of a	大湖 Tun Su Xiii Yuu Su Xiii	
chemical product in	天湖。 Team Su 天湖。 Team Su 天湖。 Team Su 天湖。	
environment/possible	Not Available 50 7000 50	
environmental	Masu 天湖。 7cm Su 天 Vin 7cm Su	
impace/ecotoxicity	天明。 Transu Transu	
Mobility in soil	Not Available A Mar Tun Su A	
Persistence and	天佛 7im5 X Min Su Su Su Su Su Su	
Degradability	Not Available 7100 50 7100 50	
Bioaccumulation potential	Not Available	
Other Adverse Effects	Not Available 7100 500	
	2 VIII	

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.

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

This report applies to by sea, by air and by land;

The Li-ion Polymer Battery (WH 701735PL) was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit; 12

The Li-ion Polymer Battery (WH 701735PL) according to Section II/Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of the 2019 IATA Dangerous Goods regulations 60th Edition may be transported, and applicable U.S. DOT regulations for the safe transport of Li-ion Battery.

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

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

Each package must be labeled with a Lithium manganese battery handling label or in addition to the Class 9 hazard label.

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.

UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Li-ion batteries or Li-Polymer batteries contained in equipment or Li-ion batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous;



Marine pollutant(Y/N): N;

- The International Maritime Dangerous Goods (IMDG) Code.

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit.

UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Li-ion batteries or Li-Polymer batteries contained in equipment or Li-Polymer batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous;

Marine pollutant(Y/N): Y;

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

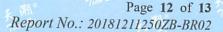
- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA
- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT) Research and Special Programs Administration (RSPA)

Section 15 - Regulatory Information

OSHA hazard communicatio	on standard (29 CFR 1910.1200)
Hazardous	Non-hazardous
	Section 16 - Additional Information

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.



Statements

- a) The results of the testing relate only to the items that tested.
- b) Test report is invalid without the "Special Seal of Test Report" or that of test unit on it.
- c) Test report is invalid without the signature of the chief tester, examiner and approver.
- d) Test report is invalid if randomly altered or duplicated. The consent and seal of this Center is required for any duplication.
- e) For entrusted tests, this Center is only responsible for the delivered samples.
- f) For any claim of the report, just refer to the testing unit in 15 days, in case it is not in the above limited time, the claim shall be dismissed.

End of Report

