



# TCL HYPERPOWER BATTERIES INC.

Tongfu Rd., Longjin, Shuikou Town, Huicheng District, Huizhou, Guangdong, China 516005

TEL: +86 752 236 7999

FAX: +86 752 236 5600

Website: [www.tclbattery.com](http://www.tclbattery.com)

E-mail: [vicky@tcl.com](mailto:vicky@tcl.com)

## TCL LITHIUM ION POLYMER BATTERY SAFETY DATA SHEET

Document Number:TCL-128		Revision:01		page 1 of 4	
IDENTITY(As Used on Label and List) Model No: <b>533268N</b> Product Name: Secondary ( Rechargeable ) <b>3.7V</b> Li-ion Battery <b>1230mAh, 4.6Wh</b>			Note: Blank spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate that.		
<b>Section I</b>					
Manufacturer's Name: TCL Hyperpower Batteries Inc			Emergency Telephone Number +86 752-2367676		
Address(Number ,Street, City State, and ZIP Code) Tongfu Road, Shuikou Town, HuiZhou Guangdong, China 516005			Telephone Number for information  +86 752-2367676		
			Date of prepared and revision , Aug .27th .09		
<b>Section II-Hazardous Ingredients /Identity Information</b>					
Hazardous Components:					
Description:					
None of the ingredients in this product is considered to be hazardous by OSHA (as defined in the OSHA Hazard Communication Standard 29 CFR 1910)					
Chemical Name		CAS No		Approximate % of total weight	
Lithium Cobalt Oxide		12190-79-3		~31	
Carbon		7782-42-5		~21.0	
PVDF		24937-79-9		~ 1.3	
LiPF6		21324-40-3		~11.8	
Ni Metal		7440-02-0		~3.5	
Al Metal		7429-90-5		~9.0	
Cu Metal		7440-50-8		~15.0	
PP		9022-88-4/ 9003-07-0		~5.0	
SBR		25053-09-2		~ 0.4	
Equivalent Lithium contents in all models are no more than <b>1.5</b> grams.					
<b>Section III – Physical / Chemical Characteristics</b>					
Boiling Point N.A.		Specific Gravity (H <sub>2</sub> O=1) N.A.			
Vapor Pressure (mm Hg) N.A.		Melting Point N.A.			
Vapor Density (AIR=1) N.A.		Evaporation Rate(Butyl Acctate) N.A.			
solubility in Water Insoluble					
Appearance and Odor		Prismatic Shape, odorless			
<b>Section IV – Fire and Explosion Hazard Data</b>					
Flash Point (Method Used) N.A.		Flammable Limits N.A.		LEL N.A.	
				UEL N.A.	
Extinguishing Media Carbon Dioxide, Dry Chemical or Foam Extinguishers					

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Special Fire Fighting Procedures		N.A.			
Unusual Fire and Explosion Hazards					
Do not dispose of battery in fire or heater –may explode..					
Do not attempt to disassemble or modify the battery in any way –may cause burns.					
Do not short-circuit battery – may cause burns.					
Do not use any chargers other than those recommended by TCL-may explode					
<b>Section V – Reactivity Data</b>					
This material is stable and non-reactive with most materials					
Incompatibility (Materials to Avoid)					
Hazardous Decomposition or Byproducts					
N.A					
Hazardous Polymerization		May Occur		Conditions to Avoid	
				Heating, , mechanical and electrical abuse	
		Will Not Occur		X	
<b>Section VI – Health Hazard Data</b>					
Route(s) of Entry:		Inhalation		Yes	
		Skin		Yes	
		Ingestion		Yes	
Health Hazard (Acute and chronic) /Toxicological information					
These chemicals are contained in a sealed coat. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is acute exposure when the gas release vent works. Organic solvent has slight toxicity and can irritate skin and eyes. Lithium salt is irritating to skin, eyes and mucous membranes and should be avoided.					
Carcinogenicity:					
NTP: No		IARC Monograph: No		OSHA Regulated: No	
Medical Conditions Generally Aggravated by Exposure:					
An acute exposure will not generally aggravate any medical condition					
This product is not expected to cause acute or chronic toxicity or skin/eye irritating					
<b>Section VII-First Aid Measures</b>					
First Aid Procedures					
Inhalation- Remove from exposure and move to fresh air immediately. Use oxygen if available					
Ingestion- Not toxic per tests with laboratory animals(rats)					
Skin contact- Remove contaminated cloths and rinse skin with plenty of water or shower for 15 minutes. If irritation persists, get medical aid					
Eye contact- Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, get medical aid					

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### Section VIII – Accidental Release or Spillage

Steps to Be Taken in Case Material is Released or Spilled

Batteries that are leakage should be handled with rubber gloves.

Pick up and place in appropriate container

### Section IX – Handling and Storage

Safe handling advice

Batteries should be handled and stored carefully to avoid short circuits

Specific safe handling advice: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or throw down. Never

Disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically

Conductive material. In the case of charging, use only dedicated charger or charge according to the conditions

specified by Sanyo.

storage advice :

Storage conditions: Avoid direct sunlight ,high temperature ,high humidity, Store in cool place.

Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids packing material.

### Section X – Exposure Controls / Person Protection

Occupational Exposure Limits: LTEP

STEP

N.A.

N.A.

Respiratory Protection (Specify Type)

Not necessary under conditions of normal use

Ventilation

Local Exhausts

Not necessary under conditions of normal use

Special

N.A.

Mechanical (General)

Not necessary under conditions of normal use

Other

N.A.

Protective Gloves

Not necessary under conditions of normal use

Eye Protection

Not necessary under conditions of normal use

Other Protective Clothing or Equipment

Not necessary under conditions of normal use

Work / Hygienic Practices

N.A.

### Section XI- Ecological Information

When promptly used or disposed the batter does not present environmental hazard

When disposed, keep away from water ,rain and snow

### Section XII – Disposal Method

This product may be disposed in a municipal landfill

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### Section XIII – Transportation Information

Special shipping information: The Lithium ion batteries and cells have been tested and comply with UN testing requirements. Meanwhile, small cells and batteries are not subject to certain provisions of the regulations if they meet specific requirements.

In the case of transportation, confirm no leakage and no overspill from a container.

Take in a cargo of them without falling, dropping and breakage.

Prevent collapse of cargo piles and wet by rain. The container must be handled carefully.

UN classification: However this product's shipping names is "Lithium ion batteries", it is not recognized as "DANGEROUS GOODS" when its transport condition accords with "packing instruction 965 part I of IATA-DGR" (or "packing instruction 966 part I" or "packing instruction 967 part I" OR "special provision 188 of IMO-IMDG Code". REGULATORY INFORMATION:

Regulations Transportation 49 Code of Federal Regulations(USA).

UN38.3 test is passed,

State the last version 50th edition of IATA regulation.

Lithium ion cell/battery contained in equipment = UN3481 with PI967

lithium ion battery = less than 100Wh per battery

### Section XVI – Regulatory Information

Note: This regulatory information included here should not necessarily all inclusive. None of the ingredients in this product are subjected to be reporting requirements of the CERCLA, the Clean Air Act and Clean Water Act (US). This product is not formulated with, nor do the manufacturing or formulation processes utilize an Class I or II Ozone depleting substances

### Section XV – Other Information

The recommendations and information contained in this MSDS have been compiled from Sources believed to represent the most current information available when the MSDS was Prepared. However, the manufacturer/distributor of this product provides any warranty. Guaranty or representation as to the correctness or sufficiency of this information. If this product is to be used in large amounts and /or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal.

### Section XVI – Measures for fire extinction

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

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