



TCL HYPERPOWER BATTERIES INC.

No.,3,Hechangdongliu Rd.,Huitai Industrial Zone,
Huicheng District, Huizhou, Guangdong,P.R.China,516006
TEL: +86 752 236 5609 FAX: +86 752 236 7660
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TCL LITHIUM ION POLYMER BATTERY SAFETY DATA SHEET

Document Number:TCL-491		Revision:01		page 1 of 4	
IDENTITY (As Used on Label and List) Cell Model No: PR-041833N Product Name: Secondary (Rechargeable) 3.7V Li-ion Battery 195mAh, 0.72Wh			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		
Section I					
Manufacturer's Name: TCL Hyperpower Batteries Inc			Emergency Telephone Number +86 752-2367675		
Address (Number, Street, City State, and ZIP Code) No.,3,Hechangdongliu Rd., Huitai Industrial Zone, Huicheng District, Huizhou, Guangdong,P.R.China,516006			Telephone Number for information +86 752-2367675		
Date of prepared and revision , JUL.2.12					
Section II-Hazardous Ingredients /Identity Information					
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			
Remark:The battery cell does not contain the lead, mercury, cadmium.					
Section III – Physical / Chemical Characteristics					
Boiling Point N.A.	Specific Gravity (H ₂ 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			



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Document Number:TCL-491		Revision:01		page2 of 4	
Section IV – Fire and Explosion Hazard Data					
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					
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					
Section V – Reactivity Data					
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	
		Will Not Occur		Heating, , mechanical and electrical abuse	
		X			
Section VI – Health Hazard Data					
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					
Section VII-First Aid Measures					
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)					



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Document Number:TCL-491		Revision:01		page 3 of 4	
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					
Section VIII – 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. :					
Section IX –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 X – 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 Liquid Image.					
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 XI – 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		Special	
		Not necessary under conditions of normal use		N.A.	
		Mechanical (General)		Other	
		Not necessary under conditions of normal use		N.A.	
Protective Gloves			Eye Protection		
Not necessary under conditions of normal use			Not necessary under conditions of normal use		
Other Protective Clothing or Equipment					
Not necessary under conditions of normal use					
Work / Hygienic Practices					
N.A.					



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Document Number:TCL-491 Revision:01 page 4 of 4

Section XII- Ecological Information

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

When disposed, keep away from water, rain and snow

Section XIII – Disposal Method

This product may be disposed in a municipal landfill

Section XIV – Transportation Information

(A) For Lithium Ion Cells and Batteries

Separate lithium ion batteries when shipping to prevent short-circuit. They should be packed in strong packaging for support during transport.

The products meet all the requirements of the IATA DGR 53RD edition, under special provisions A99 including UN 38.3 test and 1.2m drop test. They can be shipped as "Not Restricted" cargo in accordance with IATA Dangerous Good Regulations Section II of Packing Instruction 965 of IATA DGR item UN3480.

(B) For Lithium Ion Cells and Batteries Contained in Equipment

The products meet all the requirements of the IATA DGR 53RD edition, under special provisions A164 including UN 38.3 test and 1.2m drop test. They can be shipped as "Not Restricted" cargo in accordance with IATA Dangerous Good Regulations Section II of Packing Instruction 967 of IATA DGR item UN3481.

(C) For Lithium Ion Cells and Batteries Packed with Equipment.

The products meet all the requirements of the IATA DGR 53RD edition, under special provisions A164 including UN 38.3 test and 1.2m drop test. They can be shipped as "Not Restricted" cargo in accordance with IATA Dangerous Good Regulations Section II of Packing Instruction 966 of IATA DGR item UN3481.

Section XV – 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 XVI– 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.