

No.,3,Hechangdongliu Rd.,Huitai Industrial Zone,
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TCL LITHIUM ION POLYMER BATTERY SAFETY DATA SHEET

Section1-Chemical Product and Company Identification(化学品及企业标识)				
IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted if any item is not			
Cell Model No: PR-041833N	applicable or no information is available, the space must			
Product Name: Secondary (Rechargeable) 3.7V Li-ion	be marked to indicate that			
Battery 195mAh, 0.721Wh				
Manufacturer' s Name:	Emergency Telephone Number			
TCL Hyperpower Batteries Inc	+86 752-2365584			
Address (Number, Street, City State, and ZIP Code)	Telephone Number for information			
No.,3,Hechangdongliu Rd., Huitai Industrial Zone,	+86 752-2365584			
Huicheng District, Huizhou,				
Guangdong,P.R.China,516006				
	Date of prepared and revision , FEB.26th.2016			

Section2-Hazards Identification (危险性概述)

Emergency overview: NIA

Classification according to GHS

Not a dangerous substance according to GHS.

Label elements

Hazard pictogram(s): No available

Signal word: No available

Hazard statement(s): No available

Precautionary statement(s): Prevention: No available ~es~onse: No available Disposal: No available

Environmental hazards: no relevant information.

Important symptoms: See Section 11 for more information.

Section 3-Composition Information on Ingredients (成分/组成信息)

Chemical Composition	CAS No.	Weight (%)	
Cobalt lithium dioxide	12190-79-3	~31.3	
Graphite	7782-42-5	~13.9	
alunminium	7429-90-5	~17.6	
polypropylene	9003-07-0	~13.9	
Lithium hexafluorophosphate(1-)	21324-40-3	~10.1	

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copper	7440-50-8	~8.37	
PCM		~1.03	
Carbon black	1333-86-4	~0.77	
Benzene,ethenyl-,polymer with1,3- butadiene 9003-55-8		8 ~0.84	
Poly(vinylidere fluoride)	24937-79-9	~0.57	
Nickel	7440-02-0	~0.34	
Sodium carboxymethyl cellul	ose 9004-32-4	~0.27	
Polyethylene	9002-88-4	~0.44	
Tin	7440-31-5	~0.57	

Remark: The battery cell does not contain the lead, mercury, cadmium.

Section4 - First Aid Measures (急救措施)

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Personal protective equipment for first-aid responders: Not available.

Most important symptoms/effects, acute and delayed: Not available.

Indication of immediate medical attention and special treatment needed: Not available.

Section5-Fire Fighting Measures (消防措施)

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Suitable extinguishing media:

Use extinguishing agent suitable for local conditions and the surrounding environment .

Such as dry powder, C02.

Unsuitable extinguishing media:

No further relevant information available,

Specific Hazards arising from the chemical:

SpeciaP'hazards arising from the substance or mixture

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature $\{>150^{\circ}\text{C}(302\text{F})\}$, when damaged or abused (e.g. mechanical damage or electrical overcharging); may bum rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

Specific protective actions for fire-fighters:

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

Section6 - Accidental Release Measures (泄漏应急处理)

Personal precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Protective equipment:

No further relevant information available.

Emergency procedures:

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed thelspilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and materials for containment and cleaning up:

All waste must refer to the United Nations, the national and local regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section7-Handling and Storage (操作处置与储存)

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Precautions for safe handling:

Consumption of food and beverage should be avoided in work areas.

Wash hands with soap and water before eating, drinking.

Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high

temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles

Store in a cool, dry, well-ventilated place.

Information about storage in one common storage facility

Keep away from heat, avoiding the long time of sunlight.

Further information about storage conditions

Keep container tightly sealed.

Specific and use

No further relevant information available.

Section8 - Exposure Controls, Personal Protection (接触控制 / 个人防护)

Engineering control:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Personal Protective Equipment

Respiratory protection: Wear suitable protective mask in order to reduce the respiratory

system. A large number of leakage, wear chemical protective clothing, including

self-contained breathing apparatus.

Hand Protection: Wear appropriate protective gloves to reduce skin contact.

Eyes Protection: Wear safety goggles or eye protection combined with respiratory

protection.

Skin and Body Protection: Working environment required, wear suitable protective

clothing to minimize contact with skin. The type of protective equipment must be according

to the concentration and the content of certain hazardous substances in the workplace.

Section9 – Physical and Chemical Properties (理化特性)

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Information on basic physical and chemical properties

Colouc Silvery.

Physical State: Prismatic. Odour: Not available.

Odour threshold: Not available.

pH: Not available.

Melting pointlfreezing point: Not available.

Initial boiling point and boiling range: Not available.

Flash Point: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Explosion Limits (vol% In air): Not available.

Vapour pressure, kPa at 20C: Not available.

Vapor density: Not available.

DensitylRelative density (water = 1): Not available.

Solubility(ies): Not available.

Partition coefficient: n-octanoUwatec Not available.

Auto-ignition temperature: Not avgilable.

~e c omk s I t I o nte mperature: Not available.

Viscosity: Not available.

Section10 - Stability and Reactivity (稳定性和反应性)

Reactivity: Data not available.

Chemical stability: Stable.

Possibility of hazardous reactions: Data not available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible

materials.

Incompatibilities materials: Oxidizing agents, acid, base.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section11 –Toxicological Information (毒理学信息)

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Skin corroslon / irritation: Not available.

Serious eye damagelirritation: Not available.

Respiratory or Skin sensitization: Not available.

Germ Cell mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Specific target organ toxicity-Single exposure: Not available.

Specific target organ toxicity-Repeated exposure: Not available.

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

Eye: Not available.
Skin: Not available.
Ingestion: Not available.
Inhalation: Not available.

Section12 - Ecologicoal Information (生态学信息)

Ecological Toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumutathre Potential: No further relevant information available.

Mobility In Soil: No further relevant information available.,

Other adverse effects: No further relevant information available.

Section13 -Disposal Considerations (废弃处置)

Disposal methods:

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Section14 - Transpor Information (运输信息)

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(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 57th edition, under special provisions A99 including UN 38.3 test and 1.2m drop test. They can be shipped as "Danger" cargo in accordance with IATA Dangerous Good Regulations Section 1B 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 57th edition, under special provisions A164 including UN 38.3 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.with total battery weight less than 5kg in one package.

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

The products meet all the requirements of the IATA DGR 57th 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 with total battery weight less than 5kg in one package, and less than 2pcs in one small package..

Transport condition accord with "special provision 188 of IMO-IMDG Code"

Section15 – Regulatory Information (法规信息)

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

Section16- Other Information (其它信息)

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. DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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