	<b>MSDS</b> R	eport	
Applicant's name	Dongguan Perfect Amperes	K Technology Limited	
Applicant's Address	No.122 Sanjiang Industrial Guangdong Province, P. R.		Dongguan City,
Name of Sample	Polymer Li-ion Battery		(C <sup>4</sup> )
Model	802535		
Nominal Voltage	3.7V	A.	
Rated Capacity	650mAh, 2.4Wh		
Weight	12.0g	S	(S)
Size (L×W×T)	(37.0×25.5×7.0)mm	K	Š)
Prepared By	Shenzhen TCT Testing Tech 2101 & 2201, Zhenchang F Subdistrict, Bao'an District,	actory, Renshan Indus	
Report No.	TCT211112M066		
(C			
Written by:	Appr	oved by:	Tomsin
nspected by:	Zeng	Date:	2022. 01. C

## Material Safety Data Sheet

TCT通测检测 TESTING CENTRE TECHNOLOGY

Name of Sample	Polymer Li-ion Battery				
Manufacturer's name	Dongguan Perfect Amperex Technology Limited				
Manufacturer's Address	No.122 Sanjiang Industrial District, HengLi Town, Dongguan City, Gua Province, P. R. China			ng	
Contact Person	Mr. Zhou				
Tel	+86-769-82305866				
Fax	+86-769-82301898			(	
Emergency Tel	+86-769-82305866				
E-mail	zhouyien@patlcell.com				
Section 2- Hazard Classification of Danger	See section 14.		(T)		
Primary Route(s) of Exposure	Eye, skin contact, ingestion.			Ć	
	The batteries are not hazardous of manufacturer under normal condi fire, heat, leakage of internal com including but not limited to the following but not limited to	tions. In case of a ponents, which co owing cases: chai	buse, there's Hazard of rup uld cause casualty loss. Ab ged for long time, short		
Health Hazard	circuited, put into fire, whacked w crushed, and broken.				

Chemical Name	Concentration or concentration ranges (%)	CAS Number	
_ithium Cobalt Oxide	15-40	12190-79-3	
Graphite	10-30	7782-42-5	
Phosphate(1-), hexafluoro-, lithium	10-30	21324-40-3	
Copper	7-13	7440-50-8	
luminum foil	5-10	7429-90-5	
lickel	1-5	7440-02-0	

Labeling according to EC directives.

No symbol and Hazard phrase are required.

TCT通测检测 TESTING CENTRE TECHNOLOGY

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

## Section 4- First Aid Measures

Eye	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin	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	Ingesting damaged batteries, do not induce vomiting or give food or drink. Seek medical attention immediately.

## Section 5- Fire Fighting Measures Characteristics of Hazard Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes. Hazardous Combustion Products Carbon dioxide. Fire-extinguishing Methods and Extinguishing Media For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

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Attention in		Material Safety Data Sheet	
Fire-extinguishing	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
Section 6- Accio	dental Release Measu	ures	
Personal Precautions, protective equipment, and emergency procedures Environmental Precautions		In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8. Prevent product from contaminating soil and from entering sewers or waterways.	
Methods and mate	erials for cleaning up	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. Scrub the area with detergent and water;	
		collect all contaminated wash water for proper disposal.	
Section 7- Hand	dling and Storage		
/	lling and Storage		
Handling	Iling and Storage	disposal. The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect	
/		disposal.         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.         Store in a cool, dry, well-ventilated area away from         incompatible substances. Store locked up. Keep out	
Handling Storage Other Precautions		disposal.         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.         Store in a cool, dry, well-ventilated area away from         incompatible substances. Store locked up. Keep out         of the reach of children.         In case of rupture. Handle in accordance with good         industrial hygiene and safety practice. Avoid contact         with skin, eyes or clothing. Use personal protection         equipment.	

	<b>鱼测检测</b> TING CENTRE TECHNOLOGY	Material Safety Data Sheet		
Personal Protect	ive Equipment	<ul> <li>Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.</li> <li>Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.</li> <li>Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.</li> </ul>		
Section 9- Phy	sical and Chemical P	roperties		
	Appearance: Prismatic			
Physical State	Color: Silver			
	Odour: If leaking, smells of	f medical ether.		
Change in condit	ion			
рН	Not applicable as supplied	Not applicable as supplied.		
Flash Point	Not applicable unless individual components exposed.			
Flammability	Not applicable unless individual components exposed.			
Relative density:	Not applicable unless individual components exposed.			
Solubility (water)	Not applicable unless individual components exposed.			
Solubility (other)	Not applicable unless indiv	vidual components exposed.		
Section 10 – S	tability and Reactivity			
Chemical Stabilit	У	Stable under recommended storage conditions.		
Possibility of Haz	zardous Reactions	None under normal processing.		
Conditions to Ave	oid	Exposure to air or moisture over prolonged periods.		
Incompatible ma	terials	Acids, Oxidizing agents, Bases.		
Hazardous Deco	mposition Products	Carbon oxides.		
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## Material Safety Data Sheet

Irritation		In the event of exposure to internal contents, vapou fumes may be very irritating to the eyes and skin.		
Sensitization		Not Available.		
Reproductive Toxicity	S C			
Toxicologically Synergistic M	aterials	Not Available.		
Section 12-Ecological Inf	ormation			
General note:		Do not allow undiluted product or large quantities of to reach ground water, water course or sewage system.		
Anticipated behavior of a che in environment/possible envir impact/ ecotoxicity		Not Available.		
Section 13 – Disposal Co Waste Treatment	onsiderations	Recycle or dispose of in accordance with government, state & local regulations.		
Attention for Waste Treatmen	ot	Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced, crushed or treated similarly. Best disposal method is recycling.		
Section 14 – Transport In	formation			
UN number	3481			
Proper shipping name	Lithium ion batteries packed with equipment (including lithium ion polymer batteries)			
Label(s) / Placard Required         Miscellaneous Lithium batt				
		be aware of, or needs to comply with, in her within or outside their premises		
		d by air in accordance with International Civil Aviation CAO), TI or International Air Transport Association acking Instructions PI 966 Section II appropriate of IAT.		

		DGR 63 <sup>rd</sup> (2022 Edi	tion) for transportati	Material Safety D	ata Sheet
IMDG CODE:		The batteries are no	,	Code 2020 Edition (	Amdt
DOT:		Other requirements	for the US Departm ardous Materials Re	ent of Transportation gulations if shipped ir	· ,
ADR/ ADN:		Economic Commiss	sion for Europe (UN	visions of United Natio ECE) ADR/ADN if the f Chapter 3.3. Applica	y meet the
In addition, to be pern tests set out in Subse	· · ·			ust have passed the a	pplicable
Section 15 – Re	egulatory In	formation			
Dangerous Goods				. 📣	
				ions (21st revised edi	tion)
Recommendations	s on the Transpo	ort of Dangerous Go	oods-Manual of Test	ts and Criteria	
International Air Tr	ansport Associa	ation (IATA)			
International Marit	ime Dangerous	Goods (IMDG Code	e 2020 Edition Amdt	40-20)	
Technical Instructi	ons for the Safe	e Transport of Dange	erous Goods		
Classification and	code of dangero	ous goods (GB 694	4-2012)		
2012 OSHA Hazar	rd Communicati	on Standard (29 CF	R 1910.1200)		
Toxic Substance C	Control Act (TSC	CA)			
Code of Federal R	egulations				
In accordance with	n all Federal, Sta	ate and local laws			

