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UPLOAD & SAVE (上传并保存)

Safety Data Sheet for GP Lithium ion rechargeable batteries

Document Number: WI-PD-P02-700 Under normal conditions of use, the battery is hermetically sealed, NOT considered hazardous. Stated from the official reply of U.S. Department of Labor, Lithium -ion batteries have the potential to leak, spill, or break, cannot be considered an article that requires Safety Data Sheet. The SDS meets the requirement of the United States Occupational Safety and Health Administration (OSHA) 2012 Hazard Communication Standard 29 CFR 1910.1200. 外发文件

Section I – Product and Company Identification

Information of Product			
Product Identity (As Used on Label	Lithium Ion cell/battery		
and List)			

Information of Manufacturer

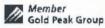
Emergency Telephone Number		
Within USA and Canada: 1-800-424-9300		
Outside USA and Canada: +1 703-527-3887		
Telephone Number for Information		
852-2484-3333		
Date of prepared and revision		
10Dec,2020 A3		

Recommended use of the chemicals:

Don't directly connect (+) and (-) of a battery to make a short circuit. Don't disassemble, heat or put the battery into fire.

Section II – Hazards Identification

Remark: "N.A. is indicated if not applicable





Safety Data Sheet for GP Lithium ion rechargeable batteries

Document Number: WI-PD-P02-700

Revision: A3

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Classification:

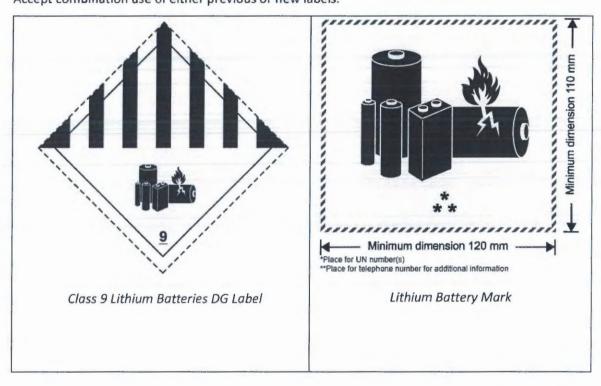
Under normal conditions of use, the battery is hermetically sealed, NOT considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). It does not pose a physical hazard or health risk. 外发文件

GHS Label elements, including precautionary statements:

Under normal conditions of use, the battery is hermetically sealed, no hazards are available.
 GHS Label: Not applicable under normal use.

IATA Label:

Accept combination use of either previous or new labels.



Hazard Statements: Not applicable under normal use.

Remark: "N.A. is indicated if not applicable

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and the second se		in ion recharged	
ocument Number: WI-PD-P02-70	00	Revision: A3	shenzho Page 4 of 1
Precautionary Statements			100 m 10 m 10 00 000
Prevention:			ZUZU -12- 1 0 ▷)
Obtain special instructions	beforeuse		外发文件
Do not handle until all safe		an read and understood	A STATE A STATE A STATE OF A STATE AND A STATE A ST
Wash face, hands and any			
Keep away from heat/ span			
Do not short circuit, punct	ure, disassemble, incine	rate, crush, immerse, fo	rce discharge or expose to
temperatures above the de	eclared operating tempe	erature range of the proc	duct
Response:			
In considering the potentia	al to leak, spill or break,	refer to Section IV - First	t aid measures
Storage			
Refer to Section VII - Hand	lling and storage		
Disposal			
The battery cell remains in	the environment. Do n	ot throw it out into the e	environment. Disposal of
contents/container in acco	rdance with local regula	tion. Refer to section XII	II – Disposal Considerations
Specific Hazards Not av	vailable		

Material/Ingredients	CAS #	Approximate % of total weight
Aluminum	7429-90-5	3-6%
Copper	7440-50-8	7-13%
Carbon	7440-44-0	10-30%
Lithium Cobalt Oxide (LiCoO ₂)	12190-79-3	0-45%
Lithium Manganese Oxide (LiMnO2)	12057-17-9	0-20%
Lithium Nickel Manganese Cobalt Oxide(NMC)	346417-97-8	0-45%
Lithium Iron Phosphate (LiFePO4)	15365-14-7	0-55%
Lithium Nickel Cobalt Aluminum Oxide (NCA)	193214-24-3	0-45%
Ethyl methyl carbonate	96-49-1	0-10%
Dimethyl carbonate	616-38-6	1-15%
Ethylene carbonate	623-53-0	1-10%

Remark: "N.A. is indicated if not applicable



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Safety Data Sheet for GP Lithium ion rechargeable batteries

Revis	sion: A3 Page 5 of 11
21324-40-3	0.1-5%
29154-49-2	0~2%
7440-22-4	0~0.001% 外发文件
7440-21-3	0~0.1%
1344-28-1	0~0.05%
12047-27-7	0~0.05%
58421-55-9	0~0.2%
65997-17-3	0~7%
	21324-40-3 29154-49-2 7440-22-4 7440-21-3 1344-28-1 12047-27-7 58421-55-9

Section IV – First-aid Measures

Inhalation	If electrolyte vapors are inhaled, remove from exposure and provide fresh air, seek medical attention if respiratory irritation develops. Ventilate the		
	contaminated area.		
Skin Contact	If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately. Remove contaminated clothing and wash before reuse. In severe cases obtain medical attention.		
Eye Contact	If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.		
Ingestion	Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical attention.		

Section V – Fire-fighting	Measures
Extinguishing Media	Carbon Dioxide, Dry Chemical or Foam extinguishers can be used for battery BUT water extinguisher is not suitable.
Unusual Fire and Explosion Hazards	In case of fire, it is permissible to use Carbon Dioxide, Dry Chemical or Foam extinguishers on these cells or their packing material. Cool exterior of cells if exposed to fire to prevent rupture.
Special Protective equipment and Precautions for fire-fighters	Fire fighters should wear self-contained breathing apparatus.

Remark: "N.A. is indicated if not applicable



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Batteries

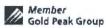
Safety Data Sheet for GP Lithium ion rechargeable batteries nt Number: WI-PD-P02-700 Davision: A2

Document Number: WI-PD-P02-700	Revision: A3	Page 6 of 11
Section VI – Accidental F	elease Measures	He for the second
Personal Precautions, protective equipment, emergency procedures	Cells that are leakage should be handled with fubber gloves contact with electrolyte. Wear protective clothing. Remove personnel from area until fumes dissipate. If the sl contact with the electrolyte, it should be washed thorough	kin has come into
Containment and Clean Up	Sand or earth should be used to absorb any exuded materia battery and contaminated absorbent material in plastic bag as Special Waste in accordance with local regulations.	

Section VII - Handling	g and Storage				
Precautions for Safe Handling	Do not expose the battery to excessive physical shock or vibration. Short-				
	circuiting should be avoided, however, accidental short-circuiting for a few				
	seconds will not seriously affect the battery. Prolonged short circuits will cause				
	the battery to rapidly lose energy, could generate enough heat to burn skin, and				
	may cause the safety release vents of the enclosed cells to open. Sources of				
	short circuits include jumbled batteries in bulk containers, coins, metal jewelry,				
	metal covered tables, or metal belts used for assembly of batteries in devices.				
	To minimize risk of short-circuiting, the protective case supplied with the				
	battery should be used to cover the terminals when transporting or storing the				
	battery. Do not disassemble or deform the battery. Should an individual cell				
	within a battery become ruptured, do not allow contact with water.				
Conditions for Safe Storage	Keep cells between -20°C and 35°C for prolong storage. When the cells are closed to fully charged, the storage temperature should be between -20°C and 30°C and should be controlled at 10-20°C during transportation and packed with efficient air ventilation. Do not store in disorderly fashion, or allow metal objects to be mixed with stored cells.				

		trols/Personal Prote		
Exposure Control Limit	t – Only for refe	erence when electrolyte is lea	ked.	
Common Chemica General Na		OSHA PEL	ACGIH TLV	
General Na	me			

Remark: "N.A. is indicated if not applicable



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Safety Data Sheet for GP Lithium ion rechargeable batteries

ent Number: WI-PD-P02-700) R	evision: A3	shenzhan) Page 7 of 1
Aluminum metal (as Al)	TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp)	Batter	ZUZU -12- 1 0
Cobalt metal (As Co)	TWA 0.1 mg/m ³	TWA 0.02 mg/m	3 外发文件
Carbon (Artificial graphite)	15mg/m ³ (total) 5mg/m ³ (respirable)		- Contraction of the second
Manganese compounds (as Mn)	(Celling) 5 mg/m ³	TWA 0.02 mg/m	³ (resp.)
Nickel, metal and insoluble compounds	(as Ni) TWA 1 mg/m ³	Elemental: 1.5m Insoluble inorga 0.2mg/m ³ (IHL)	
Copper	0.2mg/m ³ (fume) 1.0mg/m ³ (a coarse particu mist)	late,	
Organic electrolyte	-	-	

TWA - Time Weighted Average

1

ACGIH TLV: American Conference of Governmental Industrial Hygienists Threshold Limit Value OSHA PEL: Occupational Safety & Health Administration Permissible Exposure Limit

Personal protective equipment

Required when electrolyte is leaked.

Respiratory protection: Protective mask

Hand protection: Protective gloves

Eye protection: Protective glasses designed to protect against liquid splashes

Skin and body protection: Working clothes with long sleeve and long trousers

Engineering Control

No engineering measure is necessary during normal use. In case of internal leakage of cell materials, operate the local exhaust or enhance ventilation

The contents of cell are hermetically sealed.

Section IX – Physical and Chemical Properties			
Appearance	Odor		
Cylindrical or prismatic shape	Odorless		
	Odor Threshold		
	N.A.		

Remark: "N.A. is indicated if not applicable

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Safety Data Sheet for GP Lithium ion rechargeable batteries

Document Number: WI-PD-P02-700	Revision: A3	Page 8 of 11
Ph	Melting point/freezing point	山电池 Coot
N.A.	N.A.	2020 -12- 1 0
Initial boiling point and boiling range	Flash point	
N.A.	N.A.	外发文件
Evaporation rate	Flammability (solid, gas)	
N.A.	N.A.	
	Upper/lower flammability or explo	osive limits
	N.A.	
Vapor pressure	Vapor density	
N.A.	N.A.	
Relative density	Solubility	
N.A.	N.A.	
Partition coefficient: n-octanol/water	Auto-ignition temperature	
N.A.	N.A.	
Decomposition temperature	Viscosity	
N.A.	N.A.	

Reactivity	N.A.		
Chemical stability	Stable under normal use		
Possibility of hazardous reactions	By misuse of a battery cell or the like, gas accumulates in the cell and the internal pressure rises. These gases may be emitted through the gas release vent. When fire is near, these gases may take fire. When a battery cell is heated strongly by the surrounding fire, acrid or harmful fume may be emitted.		
Conditions to avoid Direct sunlight, high temperature and high humidity			
Materials to avoid	Conductive materials, water, seawater, strong oxidizers and strong acids		
Hazardous decomposition products	Acid or harmful fume is emitted during fire.		

Section XI – Toxicological Information

Route of Entry

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Remark: "N.A. is indicated if not applicable

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Safety Data Sheet for GP Lithium ion rechargeable batteries

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N.A.	Sea H H H A Const
N.A.	a 2020 -12- 1 0 B
Ingestion of a battery can be harmful.	外发文件
	N.A. N.A.

Health Hazard (Acute and Chronic) / Toxicological Information

There is no toxicity data for Battery. The battery is nontoxic because the chemical mixture from battery is sealed by the metal container.

In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte.

In contact with electrolyte can cause severe irritation and chemical burns.

Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.

Section XII – Ecological Information

Persistence/degradability :

ð

Since a battery cell and the internal materials remain in the environment, do not bury or throw out into the environment.

Section XIII – Disposal Considerations

Recommended methods for safe and environmentally preferred disposal :

Product (waste from residues)

Do not throw out a used battery cell. Recycle it through the recycling company.

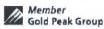
Contaminated packaging

Neither a container nor packing is contaminated during normal use. When internal materials leaked from a battery cell contaminates them, dispose them as industrial wastes subject to special control.

Section XIV – Transport Information

UN Numb	per: UN3480					
UN Prope	er Shipping Na	me: Lithium ion b	oatteries			
UN: The	Transport of D	angerous Goods,	Manual of Tests an	d Criteria 38.3 l	ithium batteries	
Shipping mode	Regulation	Packing Group/Special Provision	Limit of Wh	Transport Hazard Class		Special Precautions
USA	US DOT 49 CFR Section 173-185 Lithium batteries and cells		>20Wh(cell) >100Wh(battery)	0	No marine pollutant	Lithium handling label needed

Remark: "N.A. is indicated if not applicable



Safety Data Sheet for GP Lithium ion rechargeable batteries

	t Number: WI-		<=20Wh(cell)	Revision: A3 Non-	1.91	Page 10 of 11
			<=100Wh(battery)	dangerous goods	pollutant	label needed 外发文件
Air	ICAO/IATA DGR 62 nd edition	- PI965 Section IA	>20Wh (cell) >100Wh (battery)	Dangerous goods, Class 9	No marine no	DG Label, CAO Labe needed
		- PI 965 Section IB	<=2.7, 2.7 to 100Wh (battery) (for that exceed allowance in Section II)			Lithium handling label, DG label, CAO label needed
		- PI 965 Section II		Partially- regulated dangerous goods	No marine pollutant	Lithium handling label, CAO Label needed.
Sea	IMO/IMDG CODE 39-18	P903 SP188	>20Wh(cell) >100Wh(battery)	Dangerous goods, Class 9	No marine pollutant	Lithium handling label needed
			<=100Wh(battery)	Non- dangerous goods	No marine pollutant	Lithium handling label needed
Road/Rail	ADR/RID	P903 P903a P903b	>100Wh(battery)	Dangerous goods, Class 9	No marine pollutant	Lithium handling label needed
			<=100Wh(battery)	Non- dangerous goods	No marine pollutant	Lithium handling label needed

2020) In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for GP Lithium ion batteries (sometimes referred to as "Lithium ion battery") has been designed to be compliant with these regulatory concerns.

Rechargeable lithium ion batteries (UN 3480), are forbidden for transportation aboard passenger-carrying aircraft. Such batteries transported in accordance with Section IA, IB & II of Packing Instruction 965 must be labeled with the CARGO AIRCRAFT ONLY label. Lithium ion cells and batteries must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.

b) International Maritime Organization (IMO) IMDG Code regulated these products as UN 3480, Lithium ion batteries, Class 9 dangerous goods with Special Provision 188 and Packing Instruction 903 assigned.

Remark: "N.A. is indicated if not applicable

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Safety Data Sheet for GP Lithium ion rechargeable batteries

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The watt-hour of the models can be referred to the appendix (Model list – WI-EG-P03-100) 2020 -12- 10

Transport of Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment have to follow the appropriate regulations for UN3481. PI967, PI966 should be followed accordingly for Air Transport.

Section XV – Regulatory Information

Special requirement be according to the local regulations.

Section XVI – Other Information

The data in this Safety Data Sheet relates only to the specific material designated herein. However, the data is provided without any warranty; expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to assume liability on loss, injury, damage, or expense resulting from improper use of this product. Any previous MSDS of this product mentioned above are hereby replaced with this new document. We urge you to make this information available as appropriate in your organization and to any others with whom you arrange to handle this product.

文件履歷表

版次	制定/修訂內容	制定/修訂頁次	制定/修訂日期
R0	初版發行	New	2018.12.12
R1	更新 ICAO/IATA DGR from 59 version to 60 version	10	2019.01.04
A0	更新 ICAO/IATA DGR from 60 version to 61 version 更新文件编号致WI-PD-P03-70重新发行	10	2019.11.30
A1	更新文件准备日期到2020	1	2019.12.16
A2	更新EISO第一页信息;更新IATA版本描述61th改为61st	10	2020.2.25
A3	更新IATA版本从61st到62nd	10	2020.12.9

Remark: "N.A. is indicated if not applicable

