

GP Batteries

Material Safety Data Sheet for GP Lithium ion Portable PowerBank (Lithium ion Battery (including lithium ion polymer batteries))

Document Number: PPB100L

Revision:15

Page 1 of 7

IDENTITY (As Used on Label and List)
Lithium ion battery equipment

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 1- Identification

Manufacturer's Name GPI International Ltd.	Emergency Telephone Number
Address (Number, Street, City State, and ZIP Code) 7/F, Building 16W, 16 Science Park West Avenue, Hong Kong Science Park, New Territories, Hong Kong.	Telephone Number for information Within USA and Canada: 1-800-424-9300 Outside USA and Canada:+1 703-527-3887
	Date of prepared and revision 01 Jan, 2017
	Signature of Prepare (optional)

Section 2 – Hazards Identification

Classification:

N.A.

Section 3 – Composition/Information On Ingredients

Hazardous Components:

Description:	CAS Number	Approximate % of total weight
Lithium Cobaltite (LiCoO ₂)	12190-7-3	20-40Wt%
Graphite	7782-42-5	10-30WT%
Lithium salt	21324-40-3	1-3 WT%
Poly (vinylidene difluoride) PVdF)	24937-79-9	0-5 WT%

Section 4 – First Aid Measures

First Aid Procedures

If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.

If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.

If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.

Section 5 – Fire-Fighting Measures

Flash Point (Method Used)	Ignition Temp.	Flammable Limits	LEL	UEL
N.A.	N.A.	N.A.	N.A.	N.A.

Extinguishing Media

Carbon Dioxide, Dry Chemical or Foam extinguishers

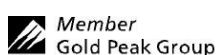
Special Fire Fighting Procedures

N.A.

Unusual Fire and Explosion Hazards

Do not dispose of battery in fire - may explode.

Do not short-circuit battery - may cause burns.



Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.

GP Batteries

Material Safety Data Sheet for GP Lithium ion Portable PowerBank (Lithium ion Battery (including lithium ion polymer batteries))

Document Number: PPB100L

Revision:15

Page 2 of 7

Section 6 – Accidental Release Measures

Steps to Be Taken in Case Material is Released or Spilled

Batteries that are leakage should be handled with rubber gloves.

Avoid direct contact with electrolyte.

Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA).

Section 7 – Handling and Storage

Safe handling and storage advice

Batteries should be handled and stored carefully to avoid short circuits.

Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries.

Never disassemble a battery.

Do not breathe cell vapors or touch internal material with bare hands.

The cells and batteries shall not be stored in high temperature ,the maximum temperature allowed is 60°C for a short period during the shipment , Otherwise the cells maybe leakage and can result in shortened service life..

Section 8– Exposure Controls / Person Protection

Occupational Exposure Limits:		LTEP	STEP
		N.A.	N.A.
Respiratory Protection (Specify Type)		N.A.	
Ventilation	Local Exhausts	N.A.	Special
	Mechanical (General)	N.A.	Other
Protective Gloves	N.A.	Eye Protection	N.A.
Other Protective Clothing or Equipment		N.A.	
Work / Hygienic Practices		N.A.	

GP Batteries

Material Safety Data Sheet for GP Lithium ion Portable PowerBank (Lithium ion Battery (including lithium ion polymer batteries))

Document Number: PPB100L

Revision:15

Page 3 of 7

Section 9 - Physical / Chemical Properties

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 Acetate) N.A.
Solubility in Water N.A.	
Appearance and Odor	Coin (button) Shape, odorless

Section 10 – Stability and Reactivity

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section 11 – Toxicological Information

Route(s) of Entry Inhalation? N.A. Skin? N.A. Ingestion? N.A.

Health Hazard (Acute and Chronic) / Toxicological information

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 12 – Ecological Information

N.A.

Section 13 – Disposal Considerations

Dispose of batteries according to government regulations.

GP Batteries

Material Safety Data Sheet for GP Lithium ion Portable PowerBank (Lithium ion Battery (including lithium ion polymer batteries))

Document Number: PPB100L

Revision:15

Page 4 of 7

Section 14 – Transportation Information

All GP lithium ion battery pack comply to the necessary requirements under the UN Manual of Tests and Criteria as referenced in the following transportation regulations:

The unit Wh is equal to Rated capacity (Ah) x Nominal voltage (V).

UN No.	Shipping modes	Regulations	Packing instructions	Limit of Wh	Classification	Lithium handling label	Class 9 DG label
UN3480	USA	US Department of Transportation of Hazardous Substances (HMR)		>20Wh(cell) >100Wh(battery)	Dangerous goods	Needed	Necessary
	Air	ICAO/IATA DGR 56 th edition	PI965	>20Wh (cell) >100Wh (battery)	Dangerous goods	Needed	Necessary
	Sea	IMO/IMDG	P903	>20Wh(cell) >100Wh(battery)	Dangerous goods	Needed	Necessary
	Road/Rail	ADR / RID	P903 P903a P903b	>20Wh(cell) >100Wh(battery)	Dangerous goods	Needed	Necessary

If single cell <20Wh or a battery pack <100Wh, the goods is classified non-dangerous goods.

Section 15 – Regulatory Information

Special requirement be according to the local regulatory.

Section 16 – Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

Section 17 – 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.

GP Batteries

Material Safety Data Sheet for GP Lithium ion Portable PowerBank (Lithium ion Battery (including lithium ion polymer batteries))

Document Number: PPB100L

Revision:15

Page 5 of 7

THE ENERGY FOR LITHIUM ION PORTABLE POWERBANK

Model	Energy (Wh)
GPXPB04	3.70Wh
GPXPB05	6.40Wh
GPXPB06	5.73Wh
GPXPB07	16.28Wh
GPXPB08	4.44Wh
GPXPB10	8.03Wh
GPXPB22	6.40Wh
GPXPB19	16.28Wh
GPXPB20	14.8Wh
GPXPB21	7.40Wh
GPXPB28	7.40Wh
GPXPB14	16.28Wh
GPXPB23	4.07Wh
GPXPB25	6.47Wh
GP541	16.28Wh
GP541A	15.54Wh
GP511	4.07Wh
GP511A	6.66Wh
GP512	6.48Wh
GP741	14.8Wh
GP761	22.2Wh
GP781	29.6Wh
GP701	37Wh
GL343	14.8Wh
GL351	19.24Wh
GL351A	20.72Wh
GL301	38.48Wh
GP341	14.8Wh
GP322	7.4Wh
GP322A	9.25Wh
GP321	7.4Wh
GP321A	9.62Wh

GP Batteries

Material Safety Data Sheet for GP Lithium ion Portable PowerBank (Lithium ion Battery (including lithium ion polymer batteries))

Document Number: PPB100L

Revision:15

Page 6 of 7

GL321	7.4Wh
GL321A	9.62Wh
GL342	14.8Wh
GL323	7.4Wh
GP352	18.5Wh
YG06	22.2Wh
YK01	29.6Wh
GP022	8.14Wh
GP001	88.8Wh
GP841	14.8Wh
GP851	19.24Wh
GP381	31.08Wh
GP382	31.08Wh
GP302	37Wh
N304	38.48Wh
MG21A	11.1Wh
NP03	44.4Wh
326P	9.62Wh
344P	14.8Wh
352PA	19.24Wh
352PB	19.24Wh
511PB	6.66Wh
SN511PB	6.66Wh
381CA	31.08Wh
302C	44.4Wh
GP241C	19.24Wh
FN02M	9.62Wh
FN03M	11.40Wh
FN05M	19.24Wh
FP05M & FP05M-A	18.5Wh
FP10M & FP10M-A	37.0Wh
FP10MB	37.0Wh
GP50	33.3Wh
GP303	44.4Wh

GP Batteries

Material Safety Data Sheet for GP Lithium ion Portable PowerBank (Lithium ion Battery (including lithium ion polymer batteries))

Document Number: PPB100L

Revision:15

Page 7 of 7

3C15A	57.72Wh
3C20A	72Wh
1C02A	9.36Wh
1C05A	18.72Wh
1C10A	39.52Wh
RC02A	9.36Wh
RC10A	37.44Wh