

Material Safety Data Sheet for GP Lithium coin cell (Lithium Metal Battery)

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IDENTITY (As Used on Label and List) Lithium Metal batteries	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 Ningbo Biba Energy Co.,Ltd.	Emergency Telephone Number				
Address (Number, Street, City State, and ZIP Code) 58 Zhongche Road, Yinzhou District, Ningbo, China	Telephone Number for information 0574-2788-0826				
	Date of prepared and revision Jan 01, 2024 Signature of Prepare (optional)				
Section 2. Horordo Identification					

Section 2 – Hazards Identification

Classification:

N.A.

Section 3 – Composition/Information On Ingredients						
Hazardous Components:						
Description:	CAS Number	Approximate % of total weight				
Lead	7439-92-1	0				
Mercury	7439-97-6	0	_			
Cadmium	7440-43-9	0				
Lithium	7439-93-2	~2Wt%				
Manganese Dioxide	1313-13-9	~31Wt%	_			
Graphite	7782-42-5	~3Wt%				
Iron	7439-89-6	~55Wt%				
Organic electrolyte	N.A.	~8%				
Others	N.A.	Balance				
O (' 4 . E' (A' 188						

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.

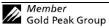
If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.

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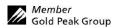
Section 8– Exposure Controls / Person Protection						
Occupational	Exposure Limits: LTEP		STEP			
	N.A.			N.A.		
Respiratory P	Protection (Specify Type)	N.A.				
Ventilation	Local Exhausts	N.A.	Special	N.A.		
	Mechanical (General)	N.A.	Other	N.A.		
Protective Gl	oves	N.A.	Eye Protection	N.A.		
Other Protect	ive Clothing or Equipment	N.A.	•			
Work / Hygie	enic Practices N.A.					



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Section 9	- Physical / C	hemical	Proper	ties			
_		Specific	Gravity (H ₂ O=		NT A		
Vapor Process	N.A.		Melting	Doint		N.A.	
Vapor Pressure (mm Hg) N.A.		Wielding	romi		N.A.		
Vapor Densit	y (AIR=1)		Evaporat	ion Rate (Butyl			
Solubility in '	N.A.					N.A.	
Solubility in	water N.A.						
Appearance a							
			C	oin Shape, odor	less		
Section 1	0 – Stability ar	nd Reac	tivity				
Stability	Unstable		Conditi	ons to Avoid			
	Stable	X					
Incompatibili	ty (Materials to Avo	oid)	1				
Hazardous De	ecomposition or By	products					
Hazardous Polymerizati on	May Occur		С	onditions to Av	oid		
	Will Not Occur		X				
Section 1	1 – Toxicologi	cal Info	rmation				
Route(s) of E	ntry Inha	lation?	N.A.	Skin?	N.A.	Ingestion?	N.A.
Health	n Hazard (Acute and	Chronic)	/ Toxicolog	gical informatio	n		
In case	e of electrolyte leaka	ige, skin wi	ill be itchy	when contamir	ated with elect	trolyte.	
	tact with electrolyte						
	tion of electrolyte va					ract and lungs	
				mon or the uppe	1 respiratory ti	act and rungs.	
Section 1	2 – Ecological N.A.	Intorma	ation				
2 11 1							
	3 – Disposal C			1			
Dispose	of batteries accordi	ng to gover	rnment reg	ulations.			
Section 1	4 – Transporta	tion Inf	ormatio	n			





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All GP lithium coin cell (Lithium Metal Battery) shown in this MSDS comply to the necessary requirements under the UN Recommendations on the Transport of Dangerous Goods Model Regulations and UN Manual of Tests and Criteria as referenced in the following transportation regulations:

- 1. UN Recommendation on the Transport of Dangerous Goods Model Regulations
- 2. U.S. Department of Transportation hazardous materials regulations (HMR)
- 3. International Civil Aviation Organization (ICAO) Technical Instruction,
- 4. International Air Transport Association (IATA) Dangerous Goods Regulations, Partially Regulated DG section II of PI 968 and
- 5. International Maritime Dangerous Goods (IMDG) Code. Special Provision 188, Special Provision 230 & Special Provision 903

GP lithium batteries are exempted from these regulations since they meet all UN Testing requirements and not exceed 1g lithium equivalent for single cell and 2 g lithium equivalent for battery. (UN3090) Non-dangerous Goods.

All GP lithium batteries (Lithium Metal Battery) packaging complies with Partially regulated DG section II of PI 968.

UN No.	Shipping modes	Regulations	instructions	Limit of Aggregated lithium content	Classification	Lithium handling label	Class 9 DG label
UN3090	USA	US Department of Tran Hazardous Substances (§ 173.185	-	1 g (cell)/2 g (battery)	Non-dangerous goods	Needed	Not necessary
	Air	ICAO/IATA DGR 65 th edition	PI968 Section II	< 0.3 g (cell/battery)	Partially regulated dangerous goods	Needed	Not necessary
	Sea	IMO/IMDG Code 41-2022	P965	1 g (cell)/2 g (battery)	Non-dangerous goods	Needed	Not necessary
	Road/Rail	ADR / RID	P903 P903a P903b	1 g (cell)/2 g (battery)	Non-dangerous goods	Needed	Not necessary

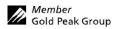
WEIGHT OF LITHIUM FOR LITHIUM BATTERY

Battery type	Model	Weight of cell (g)	Aggregated lithium equivalent content (g)
Cell	GPCR2032C	2.9	0.06
	GPCR2032	3.0	0.06
	GPCR2025	2.5	0.05
	GPCR2016	1.7	0.03

Section 15 – Regulatory Information

Special requirement be according to the local regulatory.

Section 16 - Other Information



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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.

