

广州市里亚电池有限公司

GP Lithium Battery Co Limited

No.288 East Line Guangzhu, Lanhe Town, Nansha, Guangzhou TEL: 86-20-34980129 FAX: 86-20-34980149

MATERIAL SAFETY DATA SHEET

Date: Jan /20/2015 File No.: PH-W5-883

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Product name: Lithium Metal Battery

Chemical System: Lithium and Thionyl Chloride (Li- SOCl₂ Battery)

Model: Cylindrical and coin Type Batteries_

Designated for 'DO NOT RECHARGE'? X Yes No

Manufacturer/supplier identification

Company: GP LITHIUM BATTERY CO LTD.

Contact for information: No.288 East Line Guangzhu, Lanhe Town, Nansha, Guangzhou

Emergency telephone No.: 0086-20-34980429

2. Composition/information on ingredients

Percent	CAS Index	Molar	Molecular	Symbol
	No./EC No.	mass	formula	
28.6%	7440-44-0		C	
1.0 %	7439-93-2		Li	
26.3%	7719-09-7		SOC12	
5.9%	N/A		N/A	
2.7%	N/A		N/A	
32.2%	7439-89-6		Fe	
	28.6% 1.0 % 26.3% 5.9% 2.7%	No./EC No. 28.6% 7440-44-0 1.0% 7439-93-2 26.3% 7719-09-7 5.9% N/A 2.7% N/A	No./EC No. mass 28.6% 7440-44-0 1.0% 7439-93-2 26.3% 7719-09-7 5.9% N/A 2.7% N/A	No./EC No. mass formula 28.6% 7440-44-0 C 1.0% 7439-93-2 Li 26.3% 7719-09-7 SOC12 5.9% N/A N/A 2.7% N/A N/A

Remark: The weight of metallic lithium per battery is <1 g

3. Hazards identification

Routes of Entry: Inhalation - Yes Skin - Yes Ingestion - Yes

Health Hazards (Acute and Chronic):



These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is an acute exposure when the gas release vent works. Organic solvent has slight toxicity and can irritate skin and eyes. Lithium salt is irritating to skin, eyes and mucous membranes and should be avoided.

Carcinogenicity:

NTP: None IARC Monograph: None OSHA Regulated: None

Medical Conditions Generally Aggravated by Exposure:

An acute exposure will not generally aggravate any medical condition.

4. First aid measures

After skin contact: In case of skin contact with contents of battery, flush immediately with

water. If irritation persists, get medical help.

After eye contact: For eye contact, flush with copious amounts of water for 15 minutes.

Do not inhale leaked material. If irritation persists, get medical help.

5. Fire-fighting measures

Extinguishing Media: CO₂

Flammable Limits: Not available

6. Accidental release measures

The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

7. Handling and storage

Avoid mechanical or electrical abuse. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

8. Exposure controls/personal protection

Specific control parameter:

Personal protective equipment :



Respiratory protection

Not necessary under conditions of normal use.

(Specify Type):

Ventilation:

Protective Gloves:

Eye protection:

Other Protective

Not necessary under conditions of normal use.

(Clothing or Equipment):

9. Physical and chemical properties

Specific Gravity: (H20=1): C: 0.667

Melting Point: (°C): C decomposes at 3500 deg. C

C is a black, odorless powder. Lithium is a soft, silvery metal.

Organic solvent is an odorless, colorless or light yellow liquid. Lithium salt is a white, crystalline and odorless powder.

10. Stability and reactivity

Stability: Stable

Conditions to Avoid: Do not heat, disassemble or charge.

Hazardous Decomposition or By-products: N/A Hazardous polymerization will not occur.

11. Toxicological information

Acute toxicity:

Organic solvent

Further toxicological information:

Lithium

12. Ecological information

Ecotoxic effects: N/A
Further ecological data: N/A



13. Disposal considerations

GP Lithium Battery Co.,Ltd encourages battery recycling. Our Li-SOCl2 batteries are recyclable through the Rechargeable Battery Recycling Corporation's (RBRC) *Charge Up to Recycle! Program*. For information call 1-800-8-BATTERY or see their website at www.rbrc.org. Li-SOCl2 batteries must be handled in accordance with all applicable state and federal laws and regulations.

DO NOT RECHARGE, disassemble, short, or subject battery batteries to temperatures in excess of 212 F. Do not use in combination with fresh and used lithium batteries neither with other type of battery.

14. Transport information

International transport regulations: 1. International Air Transport Association (IATA) pursuant to PI 968

Section II.

2. International Maritime Dangerous Goods Code (IMDG) pursuant to

Special Provisions A88, A99, A154 and A164.

GP Lithium Battery Co.,Ltd Li-SOCl2 batteries pass the tests defined in UN model regulation section 38.3.

Such batteries transported in accordance with Section II of Packing Instruction 968 must be labeled with the CARGO AIRCRAFT ONLY label.

If GP Lithium Battery Co.,Ltd Li-SOCl2 batteries are used to construct battery packs, the assembler of that pack is responsible to ensure the battery has been tested in accordance with the requirements contained in the UN Model Regulations, Manual of Test and Criteria. Part III, subsection 38.3.

15. Regulatory information

Batteries marketed by GP LITHIUM BATTERY CO LTD. have been classified as non-dangerous goods by the China Department of Transportation and the major international regulatory bodies and are therefore not regulated.

16. Other information

Make people :Professional post : R&D EngineerName(sign) : Sophia CuiMake unit :Name : R&D DepartmentPhone : 0086-20-34980429

Address: R&D Dept., Panyu Plant.,

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