MATERIAL SAFETY DATA SHEET

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

Identification of the product

Product name: Lithium Metal Battery

Chemical System: Lithium and Manganese Dioxide (Li-MnO2O2 batteries)

Model: CR17450, 3.0V, 2200mAh,

Designated for 'DO NOT RECHARGE'? X Yes No

Manufacturer/supplier identification

Emergency telephone No.:

Company: Guangzhou Great Power Energy & Technology

Co., Ltd

Contact for information: 912 Xicun Section, Shiliang Road, Shawan, Panyu,

Guangzhou, GD, PRC 0086-20-39196888

2. Composition/information on ingredients

| Ingredient | Percent | CAS Index | Molar | Molecular | Symbol |
|---------------------|---------|------------|-------|-----------|--------|
| | | No./EC No. | mass | formula | |
| Manganese Dioxide | 65.5% | 1313-13-9 | | MnO2 | |
| Lithium | 3.1% | 7439-93-2 | | Li | |
| Propylene carbonate | 7.6% | 108-32-7 | | PC | |
| Dimethyl ether | 0.2% | 115-10-6 | | DME | |
| Lithium Perchlorate | 12.0% | 7791-03-9 | | LiClO4 | |
| Polypropylene | 3.0% | 9003-07-0 | | PP | |
| Nickel | 1.3% | 7440-02-0 | | Ni | |
| Aluminum | 7.3% | 7429-90-5 | | Al | |

Remark: The weight of metallic lithium per cell 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 or dry chemicals

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:Not necessary under conditions of normal use.Protective Gloves:Not necessary under conditions of normal use.Eye protection:Not necessary under conditions of normal use.Other ProtectiveNot necessary under conditions of normal use.

(Clothing or Equipment):

9. Physical and chemical properties

Specific Gravity: (H20=1): MnO2: 5.03

Melting Point: (°C): MnO2 decomposes at 535 deg. C

MnO2 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

Great Power encourages battery recycling. Our Li-MnO2 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-MnO2 batteries must be handled in accordance with all applicable state and federal laws and regulations.

DO NOT RECHARGE, disassemble, short, or subject battery cells 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 Packing

Instruction 968 Section IB,969 or970 Section II

2. International Maritime Dangerous Goods Code, IMDG 40-20

3. U.S. hazardous materials regulations pursuant to 49 CFR 173.185 and

Special Provision SP188.

UN-No.: 3090 and 3091

IATA Packaging Instruction Packing Instruction 968 Section IB,969 or 970 Section II

Great Power Li-MnO2 cells pass the tests defined in UN model regulation section 38.3. Cells and batteries are packed according to the requirement of 63rd Edition of the IATA Dangerous Goods Regulations (DGR).

If Great Power Li-MnO2 cells 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

N/A

16. Other information

Make people:Professional post: R&D EngineerName(sign): Tingting LiaoMake unit:Name: R&D DepartmentPhone: 0086-20-39196888

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

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