PRODUCT INFORMATION AND DATA SHEET

Date：Dec/01/2010

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

Identification of the product

Product name：	Li-Mn Battery
Chemical System:	Lithium and Manganese Dioxide
Model:	Cylindrical and coin Type Cells
Designated for 'DO NOT RECHARGE'?	X Yes __ No

Manufacturer/supplier identification

Company：	AA Portable Power Corp (http://www.batteryspace.com)

2. Composition/information on ingredients

Ingredient	Percent	CAS Index No./EC No.	Molar mass	Molecular formula	Symbol
Manganese Dioxide (MnO2)	26%	1313-13-9			
Lithium (Li)	2%	7439-93-2			
Mixed Organic Solvent	12%	N/A			
Lithium Salt	1.2%	N/A			
Polypropylene	2%	N/A			
Steel	55.3%	N/A			
Aluminum (Al)	1.4%	7429-90-5			

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 (Specify Type)：	Not necessary under conditions of normal use.
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 Protective (Clothing or Equipment):	Not necessary under conditions of normal use.

9. Physical and chemical properties

Specific Gravity: (H20=1): MnO2: 5.03
Melting Point: (ºC): 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

Encourages battery recycling. Our Li-Mn 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-Mn 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. U.S. hazardous materials regulations pursuant to 49 CFR 173.185(b), 2. IATA Dangerous Goods Regulations pursuant to Special Provision A45 3. IMDG Code pursuant to Special Provision 188. 49 CFR 173.185(b)
UN-No.:	38.3

If Li-Mn 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 Manual of Tests and Criteria and shipped in accordance with applicable regulations. Batteries must be packaged and offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals) and protects against short circuits.

15. Regulatory information

N/A

16. Other information

Make people：	Professional post：R&D Engineer	Name(sign)：Sophia Cui
Make unit：	Name：R&D Department	
	Address：R&D Dept., Panyu Plant.,	

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