



## Safety Data Sheets (SDSs)

### Section 1 - Identification

**Product Name:** Lithium Metal Cell / Lithium and Manganese Dioxide (Li-MnO<sub>2</sub> cells non rechargeable)

**Manufacturer / Distributor Name:** AA Portable Power Corp

**Address:** 825 S 19<sup>th</sup> Street, Richmond, CA 94804, **Tel:** 510-525-2328 **Fax:** 510-439-2808

**Email:** [sales@batteryspace.com](mailto:sales@batteryspace.com)

**Emergency Tel (Within USA and Canada):** Here should be your company's emergency tel.

**Emergency Tel (Outside USA and Canada) for Shipment to USA:** Here should be your company's emergency tel.

**Recommended Use:** General use

**Restrictions on Use:** N/A

### Section 2 – Hazard(s) 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.

**Required Label Elements:** N/A

### Section 3 – Composition/Information on Ingredients

Ingredient	Content (percent of total weight)	CAS Index No.	Molecular formula
Manganese Dioxide	33%	1313-13-9	MnO <sub>2</sub>
Lithium	2.4%	7439-93-2	Li
Propylene carbonate	6.25%	108-32-7	PC
Dimethyl ether	6.25%	115-10-6	DME
Lithium Per chlorate	1.4%	7791-03-9	LiClO <sub>4</sub>
Polypropylene	2.1%	9003-07-0	PP
Steel	47.2%	7439-89-6	Fe
Aluminum	1.4%	7429-90-5	Al

Remark: The weight of metallic lithium per cell is <1.0 g.

**Trade Secret Claims:** N/A

### Section 4 – First-aid Measures

**Eye** - Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin** - Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

**Inhalation** - Remove from exposure and move to fresh air immediately. Use oxygen if available.

**Ingestion** - Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.



## Section 5 – Fire-fighting Measures

**Extinguishing Media:** CO<sub>2</sub> or dry chemicals

**Flammable Limits:** Not available

## Section 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.

## Section 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.

## Section 8 - Exposure Controls / Personal Protection

### Respiratory Protection

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting batteries. Respiratory Protection is 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.

### Personal Protection is recommended for venting batteries

Not necessary under conditions of normal use.

**OSHA's Permissible Exposure Limits (PELs):** N/A

**Threshold Limit Values (TLVs):** N/A

## Section 9 - Physical and Chemical Properties

Please refer most updated information by searching the product part# at [www.batteryspace.com](http://www.batteryspace.com)

## Section 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.

## Section 11 - Toxicological Information

**Acute toxicity:** Organic solvent

**Further toxicological information:** Lithium

**Numerical Measures of Toxicity:** No toxicity.

## Section 12 - Ecological Information

### Ecological toxicity:

The chemicals of the battery will cause harm to the environments if it is discarded to the surroundings.

**Biodegradability:** No information available.

**Non- biodegradability:** No information available.

## Section 13 - Disposal Considerations

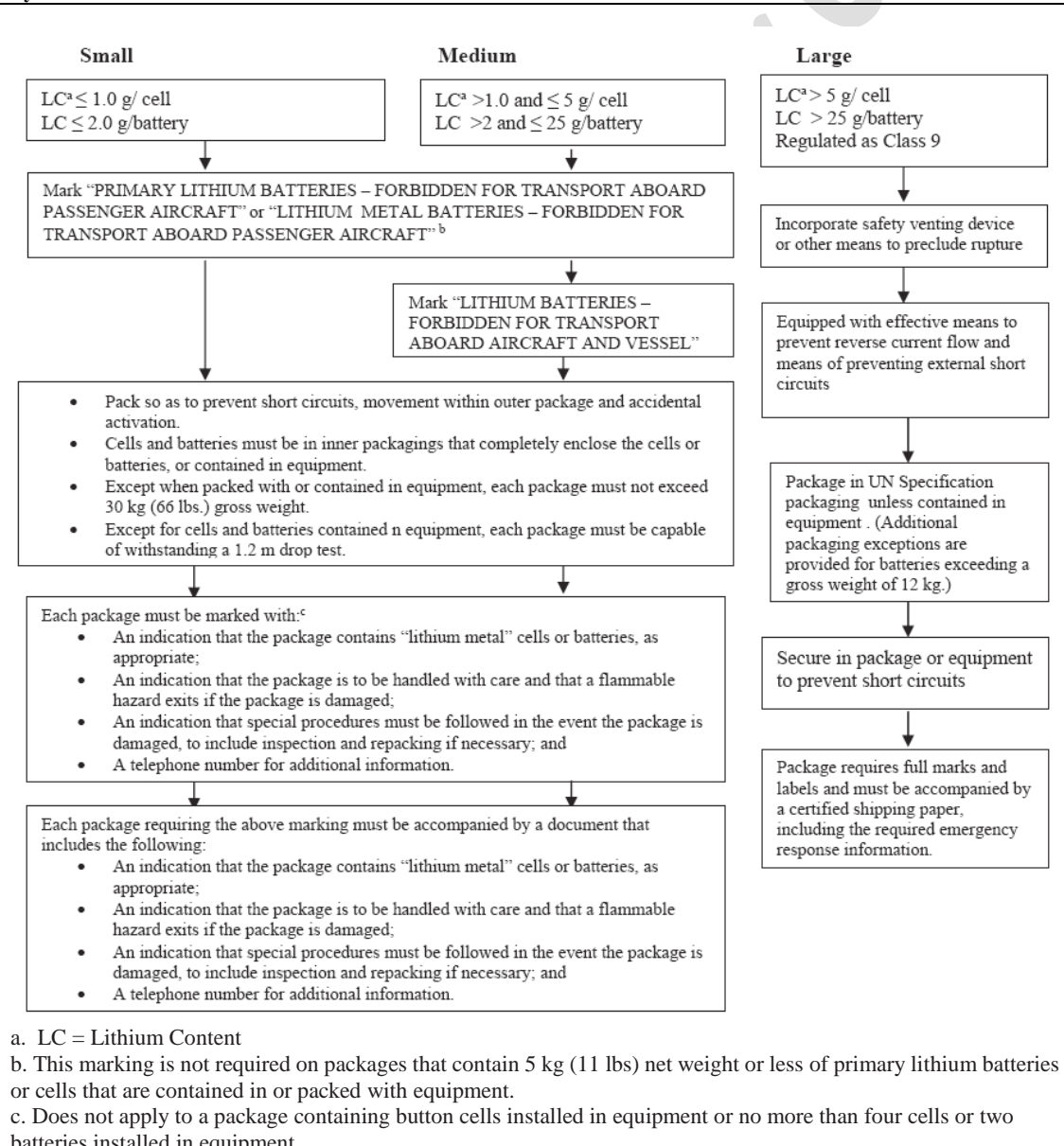
BatterySpace.com encourages battery recycling. The Li-FeS<sub>2</sub> batteries are recyclable the same way as the Rechargeable Battery.

Li-MnO<sub>2</sub> batteries must be handled in accordance with all applicable state and federal laws and regulations.

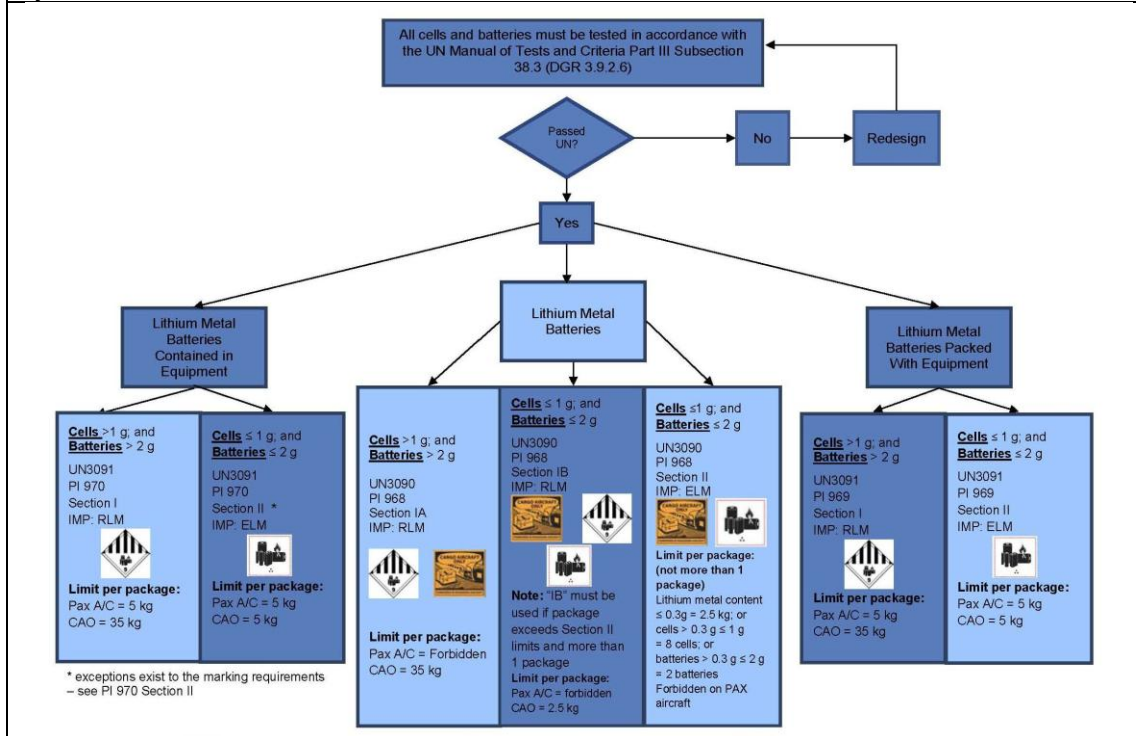
DO NOT RECHARGE, disassemble, short, or subject battery cells to temperatures in excess of 212 F. Do not use in combination with fresh and used lithium batteries neither with other type of battery.

## Section 14 - Transport Information

### By Ground



**By Air**



**April 1st, 2016 – ICAO/IATA Air Regulations – Overpacking Li Ion and Lithium Metal Cells/Batteries**

New ICAO/IATA regulations will prohibit the “Overpacking” of Section II cells and batteries under Packing Instructions 965 (Lithium Ion) and 968 (Lithium Metal). After April 1, 2016 air shipments under Section II of the regulations will be limited to one 2.5 kg package. Multiple 2.5 kg packages will not be allowed unless they ship as Class 9.

This change will have the largest impact on servicing direct customer base. While shipping lithium product by air will still be possible via Class 9 shipping, it will become more complicated and expensive. We highly recommend ordering within lead time so boat shipments can be used or maintaining inventory of the product.

**April 1st, 2016 – ICAO/IATA Air Regulations – Li Ion State of Charge**

New ICAO/IATA regulations will limit the State of Charge (SOC) to 30% for all lithium ion cells and batteries on both Passenger and Cargo aircraft. Please refer to Packing Instructions 965, Section 1A, 1B and Section II. This will impact just the shipment of cells and batteries by air, not the shipment of cells and batteries “packed with” or “contained in” equipment.



## Section 15 - Regulatory Information

### Law Information

«Dangerous Goods Regulation»

«Recommendations on the Transport of Dangerous Goods Model Regulations»

«International Maritime Dangerous Goods»

«Classification and code of dangerous goods»

IATA 2015 DGR 56<sup>th</sup> Edition

49CFR 173.185

OSHA Hazard Communication Standard Status

Toxic Substances Control Act (TSCA) Status

SARA Title III

RCRA

In accordance with all Federal, State and Local laws.

## Section 16 - Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

SDSs Creation Date: January 22, 2010

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