MATERIAL SAFETY DATA SHEET

Date: Mar/28/2011 **File No.**: PH-W5-874

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

Identification of the product

Product name: Lithium Metal Cell

Chemical System: Lithium and Iron Disulfide (Li-FeS2 cell)

Model: Cylindrical Type Cells_

Designated for 'DO NOT RECHARGE'? X Yes No

Manufacturer/supplier identification

Company: AA Portable Power Corp (dba: Batteryspace.com)

Contact for information: 860S 19th St, Richmond, CA, 94804

USA

Emergency telephone No.: 510-525-2328

2. Composition/information on ingredients

Ingredient	Percent	CAS Index No./EC No.	Molar mass	Molecular formula	Symbol
Iron Disulfide	34.4%	1309-36-0		FeS2	
Lithium	6.2%	7439-93-2		Li	
Organic Solvent	14.8%	N/A			
Lithium Salt	1.6%	N/A			
Polypropylene	2.3%	N/A			
Steel	32.9%	7439-89-6		Fe	
Aluminum	7.8%	7429-90-5		Al	

Remark: The weight of metallic lithium per cell is <0.90 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): FeS₂: 6.66

Melting Point: (°C): FeS₂ decomposes at 1193 deg. C

FeS₂ is a brass-colored, odorless mineral 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

AA Portable Power encourages battery recycling. Our Li-FeS2 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-FeS2 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 PI 968

Section II

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

Special Provisions 188 and 230.

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

Special Provision 188.

UN-No.: 3090

IATA Packaging Instruction Section II of PI 968

AA Portable Power Corp Li-FeS2 cells contain less than 1 gram of lithium and 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 marked "PRIMARY LITHIUM BATTERIES-FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT" or "LITHIUM METAL BATTERIES-FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT".

If AA Portable Power Li-FeS2 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) : Max LiuMake unit :Name : R&D DepartmentPhone : 510-525-2328

Date of issue: 2011/03/28

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good faith and believed to be accurate as of the date of preparation. AA Portable Power Corp. makes no warranty, expressed or implied, with respect to this information and

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