

## Section 1 product and company identification

**Product name:** Li-ion cell - 12V 103Ah

**Company name:** Universal Power Group Inc.

**Address:** 120 Dividend Drive, Suite 100, Coppell, TX 75019

**Emergency Phone:** 1-800-535-5053 or 1-352-323-3500 (outside USA)

## Section 2 composition/information on ingredients

Pure chemical  Mixture

### Chemical ingredients :

Chemical ingredient	Molecular formula	Content (about)	CAS No.
Lithium iron phosphate	LiFePO4	25-30	15365-14-7
Lithium hexafluorophosphate	LiPF6	15-22	21324-40-3
Aluminum	Al	5-8	7429-90-5
graphite	C	8-12	7782-42-5
copper	Cu	10-15	7440-50-8
iron	Fe	22-30	7439-89-6
ABS		5-8	9003-56-9

## Section 3 hazards Identification

**Explosive risk:** This article does not belong to the explosion dangerous goods

**Flammable risk:** This article does not belong to the flammable material

**Oxidation risk:** This article does not belong to the oxidation of dangerous goods

**Toxic risk:** This article does not belong to the toxic dangerous goods

**Radioactive risk:** This article does not belong to the radiation of dangerous goods

**Mordant risk:** This article does not belong to the corrosion of dangerous goods

**other risk:** This article is Li-ion Cell, which belongs to Class 9 Dangerous Goods

## **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**

**Flash Point:** N/A.

**Auto-Ignition Temperature:** N/A.

**Extinguishing Media:** Water, CO<sub>2</sub>

**Special Fire-Fighting Procedures:** Self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Cell may vent when subjected to excessive heat-exposing battery contents

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, lithium oxide fumes.

## **Section 6 accidental release measures**

### **Steps to be Taken in case Material is Released or Spilled**

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

### **Waste Disposal Method**

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

## **Section 7 handling and storage**

The battery should not be opened, destroyed or incinerated, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw in fire. Do not crush or puncture the battery, or immerse in liquids.

### **Precautions to be taken in handling and storing**

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

### **Other Precautions**

The battery 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 cell cores. 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.

### **Other Protective Clothing or Equipment**

Not necessary under conditions of normal use.

### **Personal Protection is recommended for venting battery**

Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

## **Section 9 Physical and Chemical Properties**

**Appearance:** Quadrate shape

**Ref, No.:** 1117040209

**Odor:** If leaking, smells of medical ether

**pH:** Not applicable as supplied

**Flash Point:** Not applicable unless individual components exposed

**Flammability:** Not applicable unless individual components exposed

**Relative density:** Not applicable unless individual components exposed

**Solubility (water):** Not applicable unless individual components exposed

**Solubility (other):** Not applicable unless individual components exposed

## Section 10 stability and reactivity

**Stability :** Product is stable under conditions described in Section 7

**Conditions to Avoid:** Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions

**Materials to avoid:** Oxidizing agents, alkalis, water.

**Hazardous Decomposition Products :** Toxic Fumes, and may form peroxides

**Hazardous Polymerization :** N/A

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons

## Section 11 toxicological information

**Signs & symptoms:** None, unless battery ruptures

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

**Inhalation:** Lung irritant

**Skin contact:** Skin irritant

**Eye contact:** Eye irritant

**Ingestion:** Poisoning if swallowed

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys

## Section 12 ecological information

**Mammalian effects:** None known at present

**Eco-toxicity:** None known at present

**Bioaccumulation potential:** Slowly Bio-degradable

**Environmental fate:** None known environmental hazards at present

### **Section 13 Disposal consideration**

Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations

### **Section 14 transport information**

**Label for conveyance:** Class 9 Hazard Label, Cargo Aircraft Only Label

**UN Number:** UN3480

**Packaging Group:** II

**EmS No:** F-A ,S-I

**Marine pollutant:** No

**Proper Shipping name:** Lithium ion batteries (Including lithium ion polymer batteries)

**Hazard Classification:** The goods shall be complied with the requirements of section IA of Packing Instruction 965 of 59th DGR Manual of IATA. and Package complies with the Packing Instruction 903 of IMDG CODE (Amdt. 38-16) 2016 Edition., including the passing of the UN38.3 test.

### **Section 15 regulatory information**

#### **Law information**

《Dangerous Goods Regulations》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous goods》

《Occupational Safety and Health Act》 (OSHA)

《Toxic Substance Control Act》 (TSCA)

《Consumer Product Safety Act》 (CPSA)

《Federal Environmental Pollution Control Act》 (FEPCA)

《The Oil Pollution Act》 (OPA)

《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)

《Resource Conservation and Recovery Act》 (RCRA)

《Safety Drinking Water Act》 (CWA)

《California Proposition 65》

《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and local laws

## **Section 16 other information**

### **Reference :**

This file is only effective to the batteries provided by commissioner Universal Power Group, Inc. Users should read this file carefully, and use the batteries in correct method. We do not assume responsibility for any damage or loss because of misuse of batteries.