

Section 1 product and company identification

Product name: Li-ion cell - 12V 6Ah, 12Ah, 18Ah

Company name: Universal Power Group Inc.

Address: 120 Dividend Drive, Suite 100 Coppel, 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
steel case for single cells	steel	5-8	12597-68-1
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, CO₂

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: Cylindrical 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.