



## SAFETY DATA SHEET

### Lithium Iron Phosphate Cell

- Inhalation : Contents of an opened battery can cause respiratory irritation.  
Provide fresh air and call a doctor.
- Skin Contact : Contents of an opened battery can cause skin irritation.  
Wash the skin with soap and water.
- Eye Contact : Contents of an opened battery can cause eye irritation.  
Immediately flush eyes thoroughly with water for at least 15 minutes.  
Seek medical attention.

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#### Section 5 – Fire Fighting Measures

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Lithium Ion Batteries are non-hazardous, non-flammable and non-explosion products.  
In case of fire, it is permissible to use any class of extinguishing medium or water on these cells or their packing material. Cool exterior of cells if exposed to fire to prevent rupture.

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#### Section 6 – Accidental Release Measures

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- Place in appropriate container;
- Wash spill site with soap solution;
- Flush spill area with copious amount of water.

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#### Section 7 – Handling and Storage

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- Storage : Store in a cool, well-ventilated area. Elevated temperatures can result in shortened cell life. Since short circuit can cause burn hazard and leak or explode hazard, do not cells jumbled in bulk containers.
- Handling : Do not short.  
Do not mix different condition or lot cells together in the battery pack.  
Do not directly heat, solder or throw into fire.  
Such unsuitable use can cause leakage, explosion or fire.
- Charging : This cell is designed for recharging.  
Charging condition shall be in accordance with manufacturer's recommendation.

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#### Section 8 – Exposure Controls/Personal Protection

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- Respiratory Protection : Not necessary under normal use.  
Ventilation : Not necessary under normal use.  
Eye Protection : Not necessary under normal use.  
Protective Gloves : Not necessary under normal use.

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#### Section 9 – Physical and Chemical Properties

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APPEARANCE	Colored cylinder
ODOR	Odorless
SOLUBILITY	Data not yet available
SPECIFIC GRAVITY	Data not yet available

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#### Section 10 – Stability and Reactivity

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Stability	Stable under normal conditions of use and storage.
Hazardous Decomposition Products	Thermal decomposition of electrolyte will produce toxic fume, vapor or dust.
Incompatibilities	Avoid contact with strong bases, acids, combustible organic materials.
Conditions to Avoid	Prolonged overcharge; sources of ignition.

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#### Section 11 – Toxicological Information

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Potential Health Effects :

Skin	Direct contact with electrolyte may cause severe irritation, burns and ulceration.
Eyes	Direct contact with electrolyte may cause severe irritation, burns, cornea damage, or blindness.
Acute Health Hazards	Repeated or prolonged contact may cause skin irritation, damage to cornea, and upper respiratory irritation.
Additional Information	No health effects are expected related to normal use of this product as sold.

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#### Section 12 – Ecological Information

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Since a battery cell and the internal materials remain in the environment, do not bury or throw out into the environment.

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#### Section 13 – Disposal Considerations

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Disposal : Dispose in accordance with applicable federal, state and/or local regulations.

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#### Section 14 – Transport Information

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Transport : PHET lithium ion batteries are not subject to the requirements of U.S. Department of Transportation (DOT) Hazardous Material Regulations because such of our batteries meet the exceptions under 173.185(b). The only acceptance to this is our batteries that contains less 0.5 grams of lithium per cell and is not subject to the regulations because it meets the requirements of 173.185(c). (Lo., passes the UN T1 to T8)

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### Lithium Iron Phosphate Cell

They are considered to be non-dangerous by the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) because they meet all the requirements of Special Provision PI965 Section IA as described by both organizations.

They are considered to be non-dangerous by the International Maritime Dangerous Goods regulations 63th (IATA) because they meet the requirements of UN 3480. The only requirements for shipping these batteries in all modes of transportation is that they must be separated to prevent short-circuits and to prevent movement that could lead to short-circuits. They must also be packed in strong packaging that can withstand the rigors transportation.

**CAUTION : FIRE OR EXPLOSION IF INCORRECTLY INSTALLED, SHORTED, DISASSEMBLED, HEATED OR DISPOSED IN FIRE.**

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (IATA)
UN number	UN3480	UN3480	UN3480	UN3480
UN proper shipping name	Lithium ion batteries	Lithium ion batteries	Lithium ion batteries	Lithium ion batteries
Transport hazard class	9	9	9	9
Packing group	II	II	II	II
Environmental hazards	No	No	No	No

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#### Section 15 – Regulatory Information

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See SECTION 14

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#### Section 16 – Other information

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THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURROPT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. PIHSIANG ENERGY TECHNOLOGY CO., LTD. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTIONG FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.