MSDS

MATERIAL SAFETY DATA SHEET

- Prepared For : Changzhou Fengyu New Energy Technology Co., Ltd. No. 35 Leshan Road, Xinbei District, Changzhou City, Jiangsu Province, China
- Prepared By : Shenzhen LCS Compliance Testing Laboratory Ltd. Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
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Approved by:



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

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* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request.

Section 1-Chemical Product and Company Identification Product Name Polymer Lithium-Ion Battery Model FY24-12 **Trade Mark** N/A 24V, 12Ah, 288Wh Ratings Weight 2587.8g Manufacturer Changzhou Fengyu New Energy Technology Co., Ltd. Manufacturer No. 35 Leshan Road, Xinbei District, Changzhou City, Jiangsu Province, China address **Emergency Telephone** +86-519-83859198 Fax +86-519-83859098 **Section 2- Composition Information Chemical Composition** CAS No. Weight (%) Alunminum Foil(Ai) 7429-90-5 5 Copper Foil(Cu) 7440-50-8 7-10 Lithium Cobalt Oxide(LiCoO₂) 12190-79-3 2-3 Nickel(Ni) 7440-02-0 2-5 Ethylene carbonate(EC C₃H₄O₃) 96-49-1 5 Dimethyl carbonate(DMC C₃H₆O₃) 616-38-6 2-5 LiNixCoyMn1-x-yo2 N/A 58-62 Graphite (C) 7782-42-5 12-15 Polyvinyindene fluoride (PVDF 24937-79-9 6 $C_2H_2F_2$)n "*" The exact percentage (concentration) of composition has been withheld as a trade secret. Section 3- Hazards Identification **Emergency overview:** N/A Classification according to GHS Not a dangerous substance according to GHS

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Hazard pictogram(s)	Not Applicable		
Signal word	Not Applicable		
Hazard statement(s)	Not Applicable		
Precautionary statement(s):			
Prevention	Not Applicable		
Response	Not Applicable		
Disposal	Not Applicable		
Environmental hazards:	No relevant information		
Important symptoms:	See section 11 for more information		
S	ection 4- First Aid Measures		
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.		
Skin contact	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.		
Sec	tion 5- Fire Fighting Measures		
Flash Point	N/A		
Auto-Ignition Temperature	N/A		
Extinguishing Media	H ₂ O, CO ₂		
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

Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be ventilated meantime.

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Environment precautions:

Do not allow product to reach sewage system or any water source.

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

Section 7- Handling and Storage			
Handling	The battery should not be opened, destroyed or incinerate, 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 to fire. Do not crush or puncture the battery, or immerse in liquids.		
Storage	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			
Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.		
Personal Protective Equipment	Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.		
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.		
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.		
Section 9- Physical and Chemical Properties			
Form	Solid		
Color	Black		

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Odour	Not Applicable			
рН	Not Applicable			
Melting point/freezing point	Not Applicable			
Boiling Point and Boiling range	Not Applicable			
Flash Point	Not Applicable			
Upper/lower flammability or explosive limits	Not Applicable			
Vapor Pressure	Not Applicable			
Vapor Density	Not Applicable			
Relative density	Not Applicable			
Solubility in Water	Not Applicable			
Auto-ignition temperature	Not Applicable			
Decomposition temperature	Not Applicable			
Evaporation rate	Not Applicable			
Flammability (soil, gas)	Not Applicable			
Viscosity	Not Applicable			
Section 10- Stability and reactivity				
Stability	The product is stable under conditions described 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.			
Incompatible Materials	Oxidizing agents, acid, base.			
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.			
Possibility of Hazardous Reaction	Not Applicable			
Section 11 – Toxicological Information				
Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.			
Sensitization	Not Applicable			
Neurological Effects	Not Applicable			

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Teratogenicity	Not Applicable				
Reproductive Toxicity	Not Applicable				
Mutagenicity (Genetic Effects)	Not Applicable				
Toxicologically Synergistic Materials	Not Applicable				
Section 12- Ecological Information					
Ecological Toxicity	Not Applicable				
Mobility in soil	Not Applicable	Not Applicable			
Persistence and Degradability	Not Applicable				
Bioaccumulation potential	Not Applicable				
Other Adverse Effects	Not Applicable				
Section 13- Disposal Considerations					
Product disposal recommendation	Observe local, s	Observe local, state and federal laws and regulations.			
Uncleaned packaging recommendation	Disposal must be made according to official regulations				
Section 14 – Transport Information					
Label for conveyance	Lithium Battery Label				
UN Number	UN 3480 or UN	UN 3480 or UN 3481			
Transport hazard class(es)	9				
Packing group	965 or 966	II			
	967				
Marine pollutant	No				
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)				
ICAO/IATA	Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 62 nd Packing Instructions Section IA of 965 or Section I of 966 967 appropriately.				
IMDG CODE	International Maritime Dangerous Goods Code IMDG CODE (Amdt.39-18)				

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ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.

Section 15- Regulatory information

Law information

《Dangerous Goods Regulations》

«Recommendation 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»

《Consumer Product Safety Act》(CPSA)

《Federal Environmental Pollution Control Act》(FEPCA)

《Resource Conservation and Recovery Act》 (RCRA)

«European Agreement concerning the International Carriage of Dangerous»

«Regulations concerning the International Carriage of Dangerous»

In according with all Federal, State and local laws.

Section 16- Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

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