

Material Safety Data Sheet

Sample name:	Li-ion Battery
Sample model:	FN-LB100
Applicant:	Falcon Technology Limited

For and on behalf of Falcon Technology Limited

74.W. Zhao

Authorized Signature (s)

Date of issue: 2023.6.19

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Section 1	-Chemical Product and Company Identification
Occitori i	-onemical rioddct and company identification
Product Name	Li-ion Battery
Model	FN-LB100
Trade Mark	
Ratings	12.8V/100Ah/1280Wh
Weight	12.580kg
Manufacturer	FALCON TECHNOLOGY LIMITED
Manufacturer Address	Hill Farm, Northwich Road, Dutton, Cheshire, WA4 4LE, United Kingdom
Emergency Telephone	+44 1928 759 239
Fax	-

Section 2- Composition Information

Chemical Composition	Chemical Formula	CAS No.	Weight (%)
Lithium Iron Phosphate	LiFePO ₄	15365-14-7	24
Graphite	С	7782-42-5	10 - 30
Lithium hexafluorophosphate	LiPF ₆	21324-40-3	23
Copper	Cu	7440-50-8	7-13



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Aluminium	Al	7429-90-5	5-10
Nickel	Ni	7440-02-0	1-5
	Section 3- Haz	zards Identification	
Emergency overview	N/A		
Label elements:			
Hazard pictogram(s)	Not Applicable		
Signal word	Not Applicable		
Hazard statement(s)	Not Applicable		
Precautionary stateme	nt(s):		
Prevention	Not Applicable	Not Applicable	
Response	Not Applicable	Not Applicable	
Disposal	Not Applicable		
Environmental hazards			
Important symptoms:	sportant symptoms: See section 11 for more information		
Section 4- First Aid Measures			
Eye contact		plenty of water for least 15 mi er eyelids. Get medical aid.	nutes,occasionally lifting the
Skin contact		ninated clothes and rinse skin v Get medical aid.	with plenty of water or shower
Inhalation	Remove from e available.	Remove from exposure and move to fresh air immediately. Use oxygen if available.	
Ingestion	Give at least 2 unconscious. Ca	glasses of milk or water.Induc all a physician.	ce vomiting unless patient is



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Section 5- Fire Fighting Measures		
Flash Point	N/A	
Auto-Ignition Temperature	N/A	
Extinguishing Media	Hydrocarbon surfactant, 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 by using sand, earth or other inert substance and contaminated area should be ventilated meantime.

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



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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.	



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	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
Personal Protective Equipment	glasses if handling an open or leaking battery.
	Have a safety shower and eye wash fountain readily available in the
Other Protective Equipment	immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.
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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	on 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



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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
Teratogenicity	Not Applicable
Reproductive Toxicity	Not Applicable
Mutagenicity (Genetic Effects)	Not Applicable
Toxicologically Synergistic Materials	Not Applicable
Secti	on 12- Ecological Information
Ecological Toxicity	Not Applicable
Mobility in soil	Not Applicable
Persistence and Degradability	Not Applicable
Bioaccumulation potential	Not Applicable
Other Adverse Effects	Not Applicable



ICAO/IATA

Report No.: CND2306020-P01-R02 Page 9 / 11 Pages **Section 13- Disposal Considerations** Product disposal Observe local state and federal laws and regulations. recommendation Packaging disposal Disposal must be made according to official regulations recommendation Section 14 - Transport Information Label for conveyance Lithium Battery Label UN 3480 or UN 3481 **UN Number** 9 Transport hazard class(es) П 965 or 966 Packing group --967 No Marine pollutant Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium ion polymerbatteries) **UN Proper shipping name** Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries) Can be shipped by air in accordance with international Civil Aviation Organization

(ICAO), TI or International Air Transport Association (IATA) DGR 64th Packing

Instructions Section IA of 965 or Section I of 966 \sim 967 appropriately.



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IMDG CODE	IMDG CODE (Amdt 41-22)International Maritime Dangerous Goods Code IMDG CODE (Amdt 41-22)
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.



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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.

-- End of Report --