

Page 1 of 6 Report No.: GTC240708M002

MATERIAL SAFETY DATA SHEET

Report No.: GTC240708M002 Page 1 of 6

Client: Lei Di An UAV Technology Co.,Ltd

1st Floor, Building 2, Post Cross-border E-commerce Park, , Dongshen 2nd

Road, Yan Tian, Feng Gang Town, Dong Guang

Manufacture Lei Di An UAV Technology Co.,Ltd

1st Floor, Building 2, Post Cross-border E-commerce Park, , Dongshen 2nd

Road, Yan Tian, Feng Gang Town, Dong Guang

Test item: Lithium polymer batteries

Type/Mode: 1S 3.8V battery, 2S 7.4V battery, 3S 11.1V Battery, 4S 14.8V

Trade mark: N/A

Receipt GTC240708M002 Date of receipt: July .08, 2024

Report Weiter: Geometry Test certification (Shenzhen) Co., Ltd

1st floor, building 6, xinhaosheng Industrial Park, Yonghe Road, Fuhai

street, Bao'an District, Shenzhen, China, 518103

tested by: reviewed by:

Yoki Li

ANON YU

Julyr.08, 2024 Yoki Li/ Project Engineer July. 08, 2024 Antoy Yu/ Reviewer

Date Name/Position Signature Date Name/Position Signature

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.



Report No.: GTC240708M002 Page 2 of 6

1. Chemical Product and Company Identification

Lithium polymer batteries Name of goods:

1S 3.8V battery, 2S 7.4V battery, 3S 11.1V Battery, 4S Type/Mode

14.8V

Applicant Lei Di An UAV Technology Co.,Ltd Factory

Lei Di An UAV Technology Co.,Ltd

Contact person: chris zhou

Emergency Telephone Number: +86 15359999233 E-mail chris@haodiok.com

2. Composition/Information on Ingredients		
Chemical Composition	CAS Number	Concentration(%)
Lithium Cobalt Oxide	12190-79-3	15-40
Graphite	7782-42-5	10-30
Phosphate(1-), hexafluoro-, lithium	21324-40-3	10-30
Copper	7440-50-8	7-13
Aluminum foil	7429-90-5	5-10
Nickel	7440-02-0	1-5

3. Hazards Identification	
Classification of Danger	See section 14.
Primary Route(s) of Exposure	No danger.
Health Hazard	The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.

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	Ingesting damaged batteries, do not induce vomiting or give food or drink. Seek medical attention immediately.

5. Fire-fighting measures	
Characteristics of Hazard	Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes.
Hazardous Combustion Products	Carbon dioxide.
Fire-extinguishing Methods and	For small fires, use water spray, dry chemical, carbon dioxide or chemical



Page 3 of 6	Report No.: GTC240708M002
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Extinguishing Media	foam.	
Attention in Fire-extinguishing	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	

6. Accidental Release Measures	
Personal Precautions,	In case of rupture. Attention! Corrosive material.
protective equipment, and emergency	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective
procedures	equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of
	spill/leak. Refer to protective measures listed in Sections 7 and 8.
Environmental Precautions	Prevent product from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
	Absorb spilled material with an inert absorbent (dry
Methods and materials for cleaning up	sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in
	Section 13. Scrub the area with detergent and water;
	collect all contaminated wash water for proper disposal.

7. Handling and Storage		
Handling	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.	
Storage	Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.	
Other Precautions	In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.	
8. Exposure Controls/Personal Protection		
Engineering control	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m³ respirable fraction (10mg/m³ total) should be observed.	
Personal Protective Equipment	Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield. Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing. Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	

9. Physical and Chemical Properties		
Physical State	Appearance: Prismatic	
	Odour: If leaking, smells of medical ether.	
pH, with indicat	ion of the concentration	Not applicable



Page 4 of 6 Re	port No.: GTC240708M002
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Melting point/freezing point	Not applicable
Boiling Point, initial boiling point and Boiling range:	Not applicable
Flash Point	Not applicable
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure:	Not applicable
Vapor Density: (Air = 1)	Not applicable
Density/relative density	Not applicable
Solubility in Water	Not applicable
Molecular Weight	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Odout threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not applicable
Viscosity	Not applicable

10. Stability and Reactivity	
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids, Oxidizing agents, Bases.
Hazardous Decomposition Products	Carbon oxides.

11. Toxicological information		
	Toxicological studies have shown that acute toxicity of similar substances is very	
Irritation	low.	
Sensitization	no data available.	
Reproductive Toxicity	no data available.	
Toxicologically Synergistic Materials	no data available.	

12. Ecological information		
General note:	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.	
Anticipated behavior of a chemical product in environment/possible	Not Available.	



Page 5 of 6 Report No.: GTC240708M002

environmental	
impact/ ecotoxicity	

13.Disposal consideration		
Waste Treatment	Recycle or dispose of in accordance with government, state & local regulations.	
Attention for Waste Treatment	Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced,	
	crushed or treated similarly. Best disposal method is recycling.	

14 . Transport Information		
3480 & 3481		
Lithium ion batteries (limited to a maximum of 30% SoC) or;		
Lithium ion batteries packed with equipment (including lithium ion polymer batteries) or;		
Lithium ion batteries contained in equipments (including lithium ion polymer batteries).		
Miscellaneous Lithium batt		
h a user needs to be aware of, or needs to comply with, in		
t or conveyance either within or outside their premises		
Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IB, PI 966 Section II and PI 967 Section II appropriate of IATA DGR 64 th (2023 Edition) for transportation.		
The batteries are not restricted to IMDG Code 2020 Edition (Amdt 40-20) according to special provision 188.		
Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.		
The batteries are not subject to the provisions of United Nations		
Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3. Applicable as from 1 January 2023.		

15. Regulation information

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations (22nd revised edition)

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG Code 2020 Edition Amdt 40-20)

Technical Instructions for the Safe Transport of Dangerous Goods Classification and code of dangerous goods (GB 6944-2012)

2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Toxic Substance Control Act (TSCA)



Page 6 of 6 Report No.: GTC240708M002

Code of Federal Regulations

In accordance with all Federal, State and local laws

16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain

hazards are described herein, we cannot guarantee that these are the only hazards that exist. The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

*****End Of Report*****