MSDS Report

Product name	:	**Polymer Li-ion Battery(FLY100WH)(33.3V 3AH)**
M/N Prepared	:	**FLY100WH**
for Address	:	**HUIZHOU RND ELECTRONIC CO., LTD.**
	:	No.16, Huifeng No.7 Road, Huicheng District, Huizhou, Guangdong, China
Prepared by		
Address	:	**HUIZHOU RND ELECTRONIC CO., LTD.**
	:	No.16, Huifeng No.7 Road, Huicheng District, Huizhou, Guangdong, China
Report Number		
Date of Test	:	**RND-21020315**
Date of Report	:	**March 15 – June 16, 2021**
	:	**March 15, 2021**

Prepared by : Sanji Guan

Reviewer by : Sophie Lee

Approved by : Casey Wang HUIZHOU RND ELECTRONIC CO.,LTD. APPROVED

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product name: Polymer Li-ion Battery (FLY100WH)(33.3V 3AH)
Company: HUIZHOU RND ELECTRONIC CO., LTD.
Address: No.16, Huifeng No.7 Road, Huicheng District, Huizhou, Guangdong, China
Post code: 516006
Email: info@hzrnd.com
Tel: 0752-2618385
Fax: 0752-2618789
Emergency phone: 13502434613
MSDS Number: RND-21020315
MSDS Date: March 15, 2021

Section 2 – Composition/Information on Ingredient

Product name: Polymer Li-ion Battery(FLY100WH)(33.3V 3AH)

Ingredient	Concentration	Chemical Formula	CAS NO.
Lithium Cobalt Oxide	35%	$LiCoO_2$	12190-79-3
Carbon	17%	C	7440-44-0
Aluminum	24%	Al	7429-90-5
Copper	8%	Cu	7440-50-8
Lithium Hexafluorophoshate	2%	$LiPF_6$	21324-40-3
Organic Carbonic Ester	14%	/	/

Section 3 – Hazards Identification

Health Hazards (Acute and Chronic):

These chemicals are contained in a sealed can Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided.

Sign/Symptoms of Exposure

A shorted lithium battery can cause a thermal and chemical burns upon contact with the skin. May be a reproductive hazard.

Section 4 – First Aid Measures

Skin:

If the internal battery materials of an opened battery cell come into contact with the skin, immediately flush with plenty of water. Call a physician.

Eye:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation:

If inhaled the internal materials of battery, remove immediately to fresh air and seek medical attention.

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:

Dry chemical, CO_2

Special Fire-fighting Procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards:

Cell my 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 batteries 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, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

Section 7 – Handling and Storage

Handling

Keep away from ignition sources, heat and flame.
Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.
Avoid mechanical or electrical abuse.
More than a momentary short circuit will generally reduce the battery service life.
Avoid reversing battery polarity within the battery assembly.
In case of a battery unintentionally be crushed, rubber gloves must be used to handle all battery components.
Avoid contact with eyes, skin.
Avoid inhalation.
No smoking at working site.
Materials to Avoid: Strong oxidizing agents, Corrosives.

Storage

Store in a cool, well-ventilated area.
Keep away from ignition sources, heat and flame.
Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.
Materials to Avoid: Strong oxidizing agents, Corrosives.

Section 8 – Exposure Controls, Personal Protection

Engineering Controls:

Use ventilation equipment if available.

Safety shower and eye bath.

Personal Protective Equipment:

Respiratory system: Not necessary under conditions of normal use.

Eyes: Not necessary under conditions of normal use.

Clothing: Wear appropriate protective clothing.

Hand: Safety gloves.

Other Protect:

No smoking, drinking and eating at working site.

Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Appearance:	Black, cylindrical battery
Odor:	Odorless
Nominal Voltage	**33.3V**
Rated Capacity:	**3AH**

Section 10 – Stability and Reactivity

Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Avoid exposure to heat and open flame.

Avoid mechanical or electrical abuse.

Prevent short circuits.

Prevent movement which could lead to short circuits.

Materials to Avoid:

Strong oxidizing agents, Corrosives.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Metal oxides, CO, CO_2

Section 11 – Toxicological Information

Toxicity Data: Not available.
Irritation Data: The internal battery materials may cause irritation to eyes and skin.

Section 12 – Ecological Information

When promptly used or disposed the battery does not present environmental hazard.
When disposed, keep away from water, rain and snow.

Section 13 – Disposal Considerations

Appropriate Method of Disposal of Substance:

If batteries are still fully charged or only partially discharged, they can be considered a reactive hazardous waste because of significant amount of uncreated or unconsumed lithium remaining in the spent battery. The batteries must be neutralized through an approved secondary treatment facility prior to disposal as a hazardous waste.
Recycling of battery can be done in authorized facility through licensed waste carrier

Section 14 – Transport Information

The Polymer Li-ion Battery(FLY100WH)(33.3V 3AH)has passed the test UN38.3.
According to the packaging instruction 965 section I of IATA DGR 59th Edition for transportation or the UNNO 3480 Class 9 of IMDG, or the Recommendations on The Transport of Dangerous Goods-Model Regulations.
The goods are subject to dangerous goods.

More information concerning shipping, testing, marking and packaging can be obtained form label master at http://www.labelmaster.com.

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

Transport fashion: By air, by sea, by railway, by road.

Section 15 – Regulatory Information

Law Information

《Dangerous Goods Regulation》
《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 Substances 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 – Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.