Report No. FENT20230403

1.Product & Company Identification

Product:	Li-ion Polymer Rechargeable Battery		
Manufacturer:	HANGZHOU WEIHONG ENERGY TECHNOLOGY Co., LTD		
Models:	601538		
Chemical system:	1. 11Wh		
Nominal Capacity:	Single: 3.7V 300mAh		
Address:	NO.39 Datang Road.Jinnan street Lin'an		
	City, Hangzhou, China		
Telephone:	86-571-63806679 Fax: 86-571-63806656		

2. Composition /Information on Ingredients:

Important note: The battery should not be opened or burned .Exposure to the ingredients contained within or their composition products could be harmful.

Chemical name index/EINECS	CAS No.	Composition (in % by weight)	EC NO./EC
Aluminum foil AL	7429-90-5	2-10	
Copper foil Cu	7440-50-8	5-10	
Nickel Ni	7440-02-0	0.5-5	
Lithium Cobalt Oxide Licoo2	12190-79-3	25-50	
Graphite C	7782-42-5	20-30	
PVDF (CH2-CF2)n	24937-79-9	0-5	

File NO/文件编号: 版本 REV: A/1 Page 1 of 4

Lithium	21324-40-3	10-20	
Hexafluorophoshate	21321 10 3	10 20	
Diaphragm		5-10	

Add: NO.39 Datang Road. Jinnan street Lin'an City, Hangzhou, China

地址: 浙江省临安市锦南街道大塘路 39 号

Tel(电话): 86-571-63806679 Fax(传真): 86-571-63806656

网站: Http://www.weihongny.com

File NO/文件编号: 版本 REV: A/1 Page 2 of 4

3, Hazardous Identification

Chemical Nature: White color solid

CAS-No/EINECS NO.:N/A

INCI CTFA-Description:Li-ion Polymer Rechargeable Battery Series

Ingestion: No effect under routine handling and use.
Inhalation: No effect under routine handling and use.
Skin contact: No effect under routine handling and use.
Eye contact: No effect under routine handling and use.
Skin absorption: No effect under routine handling and use.

Reported as carcinogen: Not applicable

4. First Aid Measures:

Under normal conditions of use, the battery is hermetically sealed. **Ingestion:**

Swallowing a battery can be harmful.

Contents of an open battery can cause serious chemical burns of mouth,esophagus,and gastrointestinal tract.If battery of open battery is ingested,do not induce vomiting or give food or drink. Seek medical attention immediately.

Inhalation:

Contents of an open battery can cause respiratory irritation. Inhalation of vapors may cause irritation of the upper respiratory tract and lungs. Provide fresh air and seek medical attention.

Skin Absorption:

Ethylene carbonate, diethyl carbonate and dimethyl carbonate may be absorbed through the skin causing localized inflammation.

Skin Contact:

Contents of an open battery can cause skin irritation and/or chemical burns .Remove contaminated clothing and wash skin with soap and water.If a chemical burn occurs or if irritation persists, seek medical attention.

File NO/文件编号: 版本 REV: A/1 Page 3 of 4

Eye Contact:

Contents of an open battery can cause severe irritation and chemical burns .Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains .Seek medical attention.

Note:

Acetylene black and cobalt compounds are listed as possible carcinogens by the International Agency for Research on Cancer (IARC).

5.Fire Fighting Measures

If fire or explosion occurs when batteries are on charge, shut off power to charger.

In case of fire where Lithium ion batteries are present, flood the area with water. If any batteries are burning, water may not extinguish them, but will cool the adjacent batteries and control the spread of fire. CO2, dry chemical, and foam extinguishers are preferred for small fires, but also may not extinguish burning lithium ion batteries. Burning batteries will burn themselves out.

Virtually all fires involving lithium ion batteries can be controlled with water.

When water is used,however,hydrogen gas may be evolved which can form an explosive mixture with air.LITH-X(powdered graphite) or copper powder fire extinguishers,sand, dry ground dolomite or soda ash may also be used.

These materials act as smothering agents.

Fire fighters should wear self-contained breathing apparatus. Burning lithium ion batteries can produce toxic fumes including HF,oxides of carbon,aluminum,lithium,copper,and cobalt,Volatile phosphorus pent fluoride may form at a temperature above 230° Fahrenheit.

6.Accidental Release Measures

On hand:Place material into suitable containers and call local fire/police department.

In water:If possible.Remove from water and call local fire/police department.

7. Handling & Storage

Handling:Do not expose the battery to excessive physical shock or vibration. Short-circuiting should be avoided;however,accidental short-circuiting for a few seconds will not seriously affect the battery. Prolonged

File NO/文件编号: 版本 REV: A/1 Page 4 of 4

short circuits will cause the battery to rapidly lose energy, could generate enough heat to burn skin. Sources of short circuits include jumbled batteries in bulk containers, coins, metal jewelry, metal covered tables, or metal belts used for assembly of batteries in devices. To minimize risk of short-circuiting, the protective case supplied with the battery should be used to cover the terminals when transporting or storing the battery. Do not disassemble or deform the battery. Should an individual cell within a battery become ruptured, do not allow contact with water.

Storage: The lithium ion battery should be between 25% and 75% of full charge when stored for a long period of time. Stored in a cool, dry, and well ventilated area. Elevated temperatures can result in loss of battery the battery to open flames.

8. Exposure Control/Personal Protection

Engineering Control:

Keep away from heat and open flame. Stored in a cool dry place.

Personal Protection:

Respiratory Protection: Not necessary under normal conditions.

Eye/Face Protection:

Not necessary under normal conditions. Wear safety glasses with side shields if handing an open or leaking battery.

Gloves:

Not necessary under normal conditions. Use neoprene or natural rubber gloves if handling an open or leaking battery.

Foot Protection:

Steel toed shoes recommended for large container handling.

File NO/文件编号: 版本 REV: A/1 Page 5 of 4

9. Physical/Chemical Properties

Physical state	Solid	Solubility in	Not Applicable
_		water	
Color	White	Vapor pressure	Not Applicable
Odor	No	Explosion limit	Not Applicable
Flash point	Not Applicable	Auto	Not Applicable
		flammability	
Solubility in	Not Applicable	Melting Point	Not Applicable
ethanol soluble			
Boiling Point	Not Applicable	Freezing Point	Not Applicable
Energy	0.01-60Wh(Note:Wh=nominal voltage×Rated Ah, marked		
	on each battery)		

10. Stability & Reactivity

Stability:Good stability at standard temperature.

Reactivity: None

Avoid contact with water and acids. Hazardous decomposition products: If Al package foil of battery is damaged, the battery should avoid to contact strong oxidizer, acids and high temperature, and the electrolyte will be formed HF.

11. Toxicological information

This product does not elicit toxicological properties during routine handling and use.

12. Ecological information:

If the battery is scrapped, it should be selected and disposed by professional company.

13. Disposal considerations

Do not dispose of battery into environment or sewerage. It should be recycled and disposed basing on your local legislation and regulations.

14. Transport Information

The watt-hour rating of the battery models listed is not more than 100Wh.The product is not classified as dangerous under the current edition(According to PACKING INSTRUCTION 965-967 Section II of IATA DGR 58th Edition for transportation,or the special 188 of IMDG) of the IATA dangerous goods regulations.The product is safe for air/sea

transportation and not regulated by IATA DGR.

File NO/文件编号: 版本 REV: A/1 Page 6 of 4

Each packing is labeled and well passed the 1.2m drop test. The manufacture data is labeled on each battery.

No	ITEMS	RESULT	REMARKS
1	Altitude	Pass	Test 1 to 5 must
	simulation		be conducted in
2	Thermal test	Pass	sequence on the
3	Vibration	Pass	same cell or
4	Shock	Pass	battery
5	External short	Pass	
	circuit		
6	Impact	Pass	
7	Overcharge	Pass	Only battery do
			need this test
8	Forced Discharge	Pass	

15. Regulatory Information

See ACGIH exposure limits information as noted in Section3.

US:This MSDS meets/exceeds OSHA requirements.

International: This MSDS conforms to European Union (UN), the International Standards Organization (ISO) and the International Labor Organization (ILO) and as documental in ANSI (American National Standards Institute) Standard Z400.1-1993.

16. other information

Prepared Department: Tech Dept. HANGZHOU WEIHONG ENERGY TECHNOLOGY Co., LTD

Reviewed Department:Quality Dept, HANGZHOU WEIHONG ENERGY TECHNOLOGY Co., LTD

PS. 1. UN Manual of Test and Criteria, Part III, Sub-section 38.3 is met.

PS. 2. The latest IATA requirement is met.

File NO/文件编号: 版本 REV: A/1 Page 7 of 4