

No.SET2016-17771

Safety Data Sheet (SDS) Report

Client unit: Flashbay Electronics

Name of sample: power bank (Model: Maple)

Address: Bldg b & C Xi Feng Cheng IND Zone, No.2 FuYuan Road He Ping, Village, FuYong Town, ShenZhen



Tested by: *Liu Yaru*

Checked By: *Calvin*

Approved By: *Billow*

Date: Oct. 11, 2016

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CCIC Southern Electronic Product Testing (Shenzhen) CO., Ltd.

Add: Electronic Testing Building, No. 43 Shahe Road, Xili Jiedao, Nanshan District, 518055 Shenzhen, Guangdong, China

<http://www.ccic-set.com> Tel: 86-755-26627338 Fax: 86-755-26627238



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Reviewed on Oct. 11, 2016

1 Identification of product and company

Product details

Product name: power bank

Model No.: Maple

Applicant: Flashbay Electronics

Address: Blgd b & C Xi Feng Cheng IND Zone, No.2 FuYuan Road He Ping, Village, FuYong Town, ShenZhen

Manufacturer: Flashbay Electronics

Address: Blgd b & C Xi Feng Cheng IND Zone, No.2 FuYuan Road He Ping, Village, FuYong Town, ShenZhen

Tel: 0755-2977-3450 **Fax:** /

Mail: Levin@flashbay.com

MSDS Code: SET2016-17771

2 Hazards identification

Emergency Overview: May explode in a fire, which could release hydrogen fluoride gas.

Use extinguishing media suitable for materials burning in fire.

GHS Classification: Not available. (This product is mixture which outside the scope of GHS system)

Primary routes of entry:

Skin contact: Contact with damaged batteries may cause burns.

Eye contact: Contact with damaged batteries may cause burns.

Inhalation: Inhalation of vapors or fumes released due to heat or a large number of leaking batteries may cause respiratory and eye irritation.

Ingestion: Ingestion of battery contents may cause mouth, throat and intestinal burns and damage.

Environment hazards: The components of the battery are harmful to the environment. Do not throw out it into the environment.

Burn & burst danger: It will explode, flame when it machine impinges, short-circuits and in high-temperature situation.



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3 Composition/information on ingredients

Chemical characterization:

Description : (CAS#)

Chemical Name	CAS No.	EC#	Composition (in % by weight)
Lithium Manganese Nickel And Cobalt	----	----	36.6
Polyvinylidene fluoride resin	24937-79-9	607-458-6	0.7
Crabon black	1333-86-4	215-609-9	0.7
Graphite	7782-42-5	231-955-3	16.2
Rubber, styrene-butadiene, fume	61789-96-6	612-382-1	0.4
Cellulose, carboxymethyl ether	9000-11-7	618-326-2	0.2
1,3-Dioxolan-2-one	96-49-1	202-510-0	3.3
Carbonic acid, dimethyl ester	616-38-6	210-478-4	6.7
Carbonic acid, ethyl methyl ester	623-53-0	613-014-2	1.1
Polypropylene	9003-07-0	618-352-4	2.7
Aluminum	7429-90-5	231-072-3	4.2
Copper	7440-50-8	231-159-6	8.2
Nickel	7440-02-0	231-111-4	0.3
Iron	7439-89-6	231-096-4	16
Phosphate(1-), hexafluoro-, lithium	21324-40-3	244-334-7	1.7
Polyvinyl chloride resin	9002-86-2	----	0.6
Poly(ethylene terephthalate)	25038-59-9	607-507-1	0.4

Abbreviation:

CAS No. is Chemical Abstract Service Registry Number.

EC No. is European Inventory of Existing Commercial chemical Substances Number.

NA: Not Applicable.

4 First aid measures

Inhalation

Not a health hazard.

Eye contact

Not a health hazard.

Skin contact

Not a health hazard.

Ingestion

If swallowed, obtain medical attention immediately.



IF EXPOSURE TO INTERNAL MATERIALS WITHIN CELL DUE TO DAMAGED OUTER CASING, THE FOLLOWING ACTIONS ARE RECOMMENDED;

Inhalation

Leave area immediately and seek medical attention.

Eye contact

Rinse eyes with water for 15min.

Skin contact

Wash area thoroughly with soap and water and seek medical attention.

Ingestion

Drink milk/water and induce vomiting; seek medical attention.

5 Fire fighting measures

General Hazard:

Cell is not flammable. Combustion products include, but are not limited to Hydrogen fluoride, carbon monoxide and carbon dioxide.

Extinguishing Media:

Use extinguishing media suitable for the materials that are burning.

Special Fire fighting Instructions:

If possible, remove cell(s) from fire fighting area, If heated above 160°C, cell(s) may explode/vent.

Fire fighting Equipment:

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

6 Accidental release measures

On land:

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 and storage

Handling: No special protective clothing required for handling individual cells.

Storage: Store in a cool, dry place.



8 Exposure controls and personal protection

Engineering controls: Keep away from heat and open flame. Store in a cool dry place.

Personal Protection:

Respirator: Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection: Not required safety practices of employer.

Gloves: Not required for handling of cells.

Foot protection: Steel toed shoes recommended for large container handling.

9 Physical and chemical properties:

9.1 General Information

State: Solid

Color: Not Applicable

Odor: Not Applicable

9.2 Chemical and physical properties:

Boiling Point: Not Applicable

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable

Solubility In Water: Not Applicable

Specific Gravity (H₂O = 1): Not Applicable

pH: Not Applicable

Density: Not Applicable

Nominal Voltage: 3.6V

Rated capacity: 2600mAh

Rate Energy: 9.36Wh

10 Stability and reactivity

Reactivity: None.

Incompatibilities: None during normal operation. Avoid exposure to heat, open flame, and corrosives.

Hazardous Decomposition Products: None during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

Conditions to Avoid: Avoid exposure to heat and open flame. Do not puncture, crush or incinerate.

11 Toxicological information

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

Sensitization: No

Teratogenicity: No

Reproductive toxicity: No

Acute toxicity: No



If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

12 Ecological information

Some materials within the cell are bio-accumulative. Under normal conditions, These materials are contained and pose no risk to persons or the surrounding environment.

13 Disposal considerations

California regulated debris
RCRA Waste Code: Non-regulated
Dispose of according to all federal, state, and local regulations.

14 Transport information

Number of dangerous goods: 9
UN Number: 3480 or 3481
Packaging Mark: No data.
Packaging Method: No data.

Transport Attentions:

Power bank (Model: Maple) should be compliant with UN38.3 test requirement for air transport. According to the Packing Instruction 965~967 of IATA DGR 57th Edition for transportation. According to the special provision 188 and 230 of IMDG (37-14). The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport.



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15 Regulations

OSHA Hazard communication standard (29 CFR 1910.1200)

Hazardous ___ Non-hazardous

16 Other information:

The above information are correct, but does not contain all of the information and only used as a guide. The information in this document is based on our current knowledge, it apply to this product as for the correct safety tips. The information does not guarantee the properties of this product. Our company is not responsible for any damages caused by the products.

***** END OF REPORT *****