MSDS

Product and Company Identification

Product Identification:

Lithium-Ion Rechargeable Battery Pack

P/N: BP17-002000

7.6V 3300mAh (25.08Whr) 2S1P

Manufacturer:

ETI CA Battery Inc.

5F, NO. 6, Lane 122, Gan-Yuan St., Sec.2, Shu-Lin Dist, New Taipei City,

Taiwan Tel: +886 2 2680 1603

Fax: +886 2 2668 9564

Issued or revised date: January. 1, 2021 Manufacturer date: January. 1, 2021

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION **62st** Edition of the IATA DGR in Handling and Storage party of MSDS PRODUCT IDENTIFICATION

P/N: BP17-002000

Lithium-ion Battery Pack.

MANUFACTURER

ETI CA Battery Inc.

5F, NO. 6, Lane 122, Gan-Yuan St., Sec.2, Shu-Lin Dist, NewTaipei City, Taiwan

Tel: +886 2 2680 1603 Fax: +886 2 2668 9564

E-mail: alden.lu@eticabattery.com

2. COMPOSITION INFORMATION

| Battery Cell | | |
|---|-----------|------------|
| HAZARDOUS INGREDIENTS | % | CAS NUMBER |
| Aluminum Foil | 2-10 | 7429-90-5 |
| Metal Oxide (propietary) | 20-50 | |
| Polyvinylidene Fluoride (PVDF) | <5 | 24937-79-9 |
| Copper Foil | 2-10 | 7440-50-8 |
| Carbon (proprietary) | 10-30 | 7440-44-0 |
| Electrolyte (proprietary) | 10-20 | |
| Stainless steel, Nickel and inert materials | Remainder | N/A |

Battery: 25.08Whr BP17-002000

| Circuit Module | | | |
|----------------|----------------------|-----|------------|
| | COMMON CHEMICAL NAME | % | CAS NUMBER |
| Lead | | 1-2 | 7439-92-1 |
| Mercury | | 0 | 7439-97-6 |
| Chromium | | 0 | 7440-47-3 |

MATERIAL SAFETY DATA SHEET

| Cadmium | 0 | 7440-43-9 |
|-----------------------|----|-----------|
| Plastic case and Si2O | 60 | N/A |

Plastic Parts, Paints, Wiring and Socket

| COMMON CHEMICAL NAME | % | CAS NUMBER |
|-----------------------------|-----------|------------|
| Lead | < 0.1 | 7439-92-1 |
| Nickel | < 0.01 | 7440-02-0 |
| CFCs | 0 | 75-69-4 |
| Polyclorinated Biphenyls | 0 | 1336-36-3 |
| Plastics and other compound | Remainder | N/A |

3. COMMON CHEMICAL NAME

62st Edition of the IATA DGR in Handling and Storage party of MSDS PRIMARY ROUTES OF ENTRY

Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion: NO

SYMPTOMS OF EXPOSURE

Skin contact

No effect under routine handling and use.

Skin absorption

No effect under routine handling and use.

Eye contact

No effect under routine handling and use.

Inhalation

No effect under routine handling and use.

REPORTED AS CARCINOGEN

Not applicable

4. FIRST AID MEASURES

INHALATION, EYE CONTACT, and SKIN CONTACT: Not a health hazard.

INGESTION

If swallowed, obtain medical attention immediately.

If exposure to internal materials within cell(pack) due to damaged outer casing, the following actions are recommended.

INHALATION

Leave area immediately and seek medical attention.

EYE CONTACT

MATERIAL SAFETY DATA SHEET

Rinse eyes with water for 15 minutes and seek medical attention.

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 but internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

EXTINGUSHING MEDIA

Use extinguishing media suitable for the materials that are burning.

SPECIAL FIREFIGHTING INSTRUCTIONS

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.

FIREFIGHTING 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.

Package meet the IATA DG Regulation packing instruction 965 to 967 Section II request.

Store in a cool, dry place.

8. Exposure controls/personal protection

ENGINEERING CONTROLS

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

PERSONAL PROTECTION

MATERIAL SAFETY DATA SHEET

Respirator: Not required during normal operations. SCBA required in the

event of a fire.

Eye/face protection: Not required beyond 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

State Solid Odor N/A PH N/A Vapor pressure N/A Vapor density N/A Boiling point N/A Solubility in water Insoluble Specific gravity N/A Density N/A

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 |
|--|-------------------|--------------------|---------------------------|--------------------|
|--|-------------------|--------------------|---------------------------|--------------------|

This product does not contain any kinds of the following substances and halogen-type flame retardants including Chlorine and Bromide type harmful flame retardants which are listed in Appendix of TCO documents and relevant international ECO requirements:

| Polybromated Biphenyls (P | BB) |) |
|---------------------------|-----|---|
|---------------------------|-----|---|

Polybromated Biphenyl Ethers (PBBE)
Polybromated Biphenyl Oxides (PBBO)

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Polybromated Diphenylethers (PBDE)

Polychlorinated Biphenyl (PCB)

Polychloronated Diphenylethers (PCDE)

Tetrabromphisphenol A (TBBPA)

Asbestos, Antimonytrioxide, Dioxine

None of the following substances will be exposed, leaked, or emitted during transportation, storage or any operation and any temperature condition:

Chlorinated Fluorohydrocarbon

(FCKW)

Acrylonitride

Styrol

Phenol

Benzol

Mercury of greater than 0.0001 wt% for alkaline battery Mercury of greater than 0.0005 wt% for other battery Lithium content of greater than 0.5g/battery cell

Cadmium, lead, and other harmful heavy metal

And will comply with the regulation of 49 CFR (DOT regulation), International Air Transport Association (IATA), and Deuche Forschungsgemeinschaft (DFG) regarding concentrations of emitted substances.

This product does not contain mercury, cadmium and lithium-metal.

Mercury content: N/A

Lithium-metal content: < 1.5g

Cadmium content: N/A

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 bioaccumulative. 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: Nonregulated

Dispose of according to all federal, state, and local regulations.

14. Transport information

ETI CA Battery Inc.

MATERIAL SAFETY DATA SHEET

ETI CA Battery Inc. Lithium Ion battery Packs are considered to be "Rechargeable batteries" and meet the requirements of transportation by the U.S. Department of Transportation(DOT), International Civil Aviation Administration(ICAO), International Air Transport Association(IATA) Dangerous Goods Regulations Section II of PACKING INSTRUCTION 965-967 and SPECIAL PROVISION A88, A99, A154, A164 and belongs to non-dangerous goods.

For the lithium ion battery, the Watt-hour is not more than 100Wh.Comply with all of the requirements set out in section II of packing instructions 965, 966, 967 and UN3480 for lithium ion batteries in the 62st edition of the IATA DGR.

| 15. regulatory information | | |
|--|----------------|--|
| OSHA hazard communication standard (29 C | CFR 1910.1200) | |
| Hazardous | Non-hazardous | |

UN Test Result

Product and Company Identification

Product Identification:

Lithium-Ion Rechargeable Battery Pack / 2S1P.

Manufacturer:

ETI CA Battery Inc.

5F, NO. 6, Lane 122, Gan-Yuan St., Sec.2, Shu-Lin Dist, New Taipei City, Taiwan

Tel: +886 2 2680 1603 Fax: +886 2 2668 9564

Issued or revised date: January. 1, 2021

Substance Identification

Substance: Lithium Ion Battery CAS number: 12190-79-3.

UN Class: Even classified as lithium batteries, they are exempted from Dangerous

Goods

UN-Recommendations on the Transport of Dangerous Goods Model Regulations.

(ST/SG/AC. 10/1 Rev. 11)

**Lithium ion rechargeable cells are not subject to the UN Regulations if they meet the following provisions.

The equivalent Lithium content calculated by 0.3 times of the rated capacity in Ampere-hour (Ah) is not more than 1.5g.

**Lithium ion rechargeable batteries are not subject to the UN Regulations if they meet the following provisions.

The equivalent Lithium content is not more than 8g.

Composition:

2-1. Cases: PC and ABS: No dangerous

2-2. Printed Circuit Board Assembly: No dangerous

2-3.Lithium Ion Cell: VEKEN 425683PH 3220mAh * 2

Lithium cobalt oxide (Xn) 10-50%

Mixture of fluorinated inorganic (T,C) < 5%

Mixture of organic carbonate 10 – 30%

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Certificate of UN test for Lithium ion battery

ETI Model:BP17-002000

Description: (1). Rated Voltage:7.6V

(2). Nominal Capacity: 3300mAh (25.08Wh)

(3). Lithium equivalentcontent:0.99g

Date: 2021/01/01

UN Test Result

| No. | Manual of Tests and Criterisa (38.3 Lithium bateries) | Test Results | Remark |
|-----|---|--------------|------------------|
| | Test description | | |
| T1 | Altitude Simulation Test | Pass | N/A |
| T2 | Thermal Shock Test | Pass | N/A |
| Т3 | Vibration Test | Pass | N/A |
| T4 | Shock Test | Pass | N/A |
| T5 | External Short Circuit Test | Pass | N/A |
| Т6 | Impact Test | - | No need for pack |
| T7 | Overcharge Test | Pass | N/A |
| Т8 | Forced Discharge Test | | No need for pack |

We declare that the above-mentioned test is the result of being checked according to UN test. (Manual of Tests and Criteria Rev5, Part III, sub-section 38.3)

We remain available to provide any other information that you may require.

Sincerely,

Steven Hou

Engineering Assistant Manager / ETI CA Battery Inc.

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IATA/UN Transportation

Revised by the Recommendations of the Transport of Dangerous Goods, Manual of Test and Criteria

Date: January. 1, 2021 Model: BP17-002000

Description: Rechargeable lithium-ion battery rated voltage 7.6V nominal

capacity 3300mAh

Package Drop

Test ETI Model: **BP17-002000**

| No. | Test description | Remark | Test Results |
|-----|-------------------|---|--------------|
| 1 | Package Drop Test | The package shall be dropped from 1.2M high onto a concrete surface (Flat and Horizontal) with five orientations: | Pass |
| | | 1 st for Flat of the bottom side | |
| | | 2 nd for Flat of the top side | |
| | | 3 rd for Flat of the right side | |
| | | 4 th for Flat of the left side | |
| | | 5 th for the corner | |

We declare that the above-mentioned test is the result of being checked according to UN test. (Manual of Tests and Criteria Rev5, Part III, sub-section 38.3)

We remain available to provide any other information that you may require. Sincerely,

Steven Hou

Engineering Assistant Manager / ETI CA Battery Inc.

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