

# Product Safety Data Sheet

Product name (Chemical name, Product name etc.)

Small Lithium -ion Rechargeable Battery

Reference No. : SLB SDS-06D(E)

Model No. : SLB04255L040

17.Mar.2022

Capacitor Business Headquarters

Nichicon Corporation

## Product Safety Data Sheet

### Section1 - Product and Company Identification

Company : Nichicon Corporation  
Address : Karasumaoike agaru, Nakagyō-ku, Kyoto-city, Japan, 604-0845  
Section in Charge : Capacitor Headquarters  
Tel : 075-231-8461, Fax. : 075-256-4158  
Manufacturer information : Nichicon Ohno Corporation Site II  
Address : 4-24-15, Tsuchifugo Ohno-shi, Fukui Pref., Japan, 912-0805  
Emergency contact : 0779-65-8800  
Product Name : Small Lithium-ion Rechargeable Battery , 4mAh (9.6mWh)

### Section 2 - Summary of hazards

Name of classification : N/A

Danger: Short-circuiting the positive and negative electrodes of the battery may cause heat generation or liquid leakage.

If electrolyte leaks, it is flammable, so keep it away from the fire immediately.

Hazardousness

Vapors generated when the batteries burn may irritate the eyes, skin and throat.

### Section 3 - Composition and ingredient information

Substance name: Lithium ion Rechargeable Battery

CAS NO. : Not specified

Main material content of single cell

-Positive electrode : Lithium manganate 11 to 15 wt%

-Negative electrode : Lithium titanate 11 to 16 wt%

-Electrolytic solution: 15 to 21 wt% of organic electrolytic solution mainly composed of carbonate ester, dangerous Goods Class 4 Second Petroleum.

### Section4 - First Aid Measures

The electrolyte is flammable and it is accompanied by irritation to the eyes, skin and mucous membranes. In the case of electrolyte leakage, please refer to the information below.

-Skin Immediately wash the adhering part with water or using soap while sipping the hot water. If there is a change in your skin or pain continues, please consult your doctor immediately.

- Eyes Immediately after washing with water for about 15 minutes, please consult a doctor.

- Smoke, Ignition

Please extinguish with carbon dioxide, powder fire extinguisher, or a lot of water.

Section5 -Fire Fighting Measures

Fire extinguishing method : Cut off the combustion source and extinguish with a fire extinguishing agent. Also keep things that are at risk of spreading fire.

Extinguishing agent : Use powder, carbon dioxide, dry sand and so on.

Section6 -Fire Fighting Measures, in case of electrolyte leakage

Wipe off with a dry cloth.

Rinse off residues with plenty of water.

Keep away from the fire.

Section7 -Handling and storage

Hazards

- Since chemical components are sealed in the battery body, the hazards are extremely low. However, if it is used wrongly, the battery body may cause deformation, leakage, rupture, heat generation, or irritating gas or corrosive gas. So please be extremely careful in handling.
- Keep the fire away.

Storage precautions

- Do not keep the terminals in contact with them or not keep them in contact with the conductors.
- Please avoid storing following circumstances.
  - a) Water is directly applied, high temperature and high humidity, condensation occurs place.
  - b) Oil is directly applied, oil components is filled in gaseous state.
  - c) Salt water is directly applied, salt is full.
  - d) Toxic gas, hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, bromine, methyl bromide, ammonia environment etc.
  - e) Irradiated with direct sunlight, ozone, ultraviolet rays and radiation.
  - f) Acidic and alkaline solvents are applied.

Section8 – Exposure controls

- Protective equipment : Unnecessary in normal use state.

Section9 – Physical / chemical characteristics

- Appearance : Cylindrical shape
- Nominal voltage : 2.4V
- Nominal capacity : 4mAh

Section10 – Stability and reactivity

- When two or more products are not insulated to the terminals and mixed randomly, it may cause rapid heat generation by short circuit between terminals.

- In case of overcharging, heating, dropping in the fire, electrolyte or other material may be jumped out abruptly.
- If this product is disassembled, there is a possibility of rapid heat generation due to short circuit.

#### Section 11 – Hazard information

-N/A

#### Section 12 – Environmental impact information

-N/A

#### Section 13 – Disposal consideration

The battery may be regulated by national or local regulation. Please follow the instructions of proper regulation.

For example, in the case of disposing / discarding this cell in Japan, the business operator himself contacts with industrial waste disposal contractor properly according to the “Waste disposal and public cleaning law”. Since the electrical energy may remain even if it is a used cell, after setting the open circuit voltage to 0.5V or less, treat the terminal part with an insulating tape or the like so that the cell will not be short-circuited.

#### Section 14 – Transportation

UN number

: UN 3480 or UN3481, built in equipment, equipment included.

UN classification : class 9 Substances and articles

When transporting the cell, please follow the appropriate proper laws and regulations.

- The battery cell is subject to United Nations Recommendations on the Transport of Dangerous Goods Special Provision 188.
- The battery cell is subject to Section IB of the packing standards of the IATA Dangerous Goods Regulations (63<sup>rd</sup> Edition, 2022).
- The battery and its transport package have passed the UN 38.3 drop test.

#### Section 15 – Applicable Law

- Fire service Act
- Aviation law
- Ship safety law
- IATA Dangerous Goods Regulations

#### Section 16 - Others

References

GHS classification guidance for business operators Ministry of Economy, Trade and Industry issued March 2009.

- Among the contents of the contents, numerical values such as content, physical and chemical properties are not guaranteed values.
- This information may be revised based on new findings.

- The information described here is based on the Company's foremost findings, but the information integrity and accuracy. There is no guarantee. Since all chemicals may have unknown harmfulness, handling the best attention is required. Please decide on the appropriateness of this product at your own risk.