

Safety Data Sheet (SDS)

Applicant's Name: DONG GUAN YCH BATTERY CO., LTD

Applicant's Address: Room 401, Unit 7, Building 14, No. 95, Jiaoping Road, Tangxia Town, Dongguan City

Name of Sample: Rechargeable Lithium ion battery pack

Model: INR21700-4900MAH

Nominal Voltage: 3.63V

Rated Capacity: 4900mAh, 17.79Wh

Weight: 73.22g

Size: (D×H) (22.0×75.0) mm

Prepared By: Shenzhen TCT Testing Technology Co., Ltd.

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

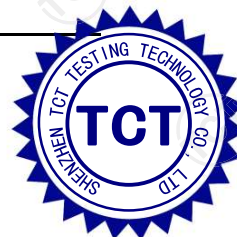
No.: TCT260107M0251

Written by: Spring Fu

Approved by: Tomsin

Inspected by: Mollie Wu

Effective Date: 2026.01.09



Section 1- Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Name of Sample: Rechargeable Lithium ion battery pack

Model: INR21700-4900MAH

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Used in consumer goods

Uses advised against: No information available

1.3 Details of the supplier of the safety data sheet

Manufacturer's Name: DONG GUAN YCH BATTERY CO., LTD

Manufacturer's Address: Room 401, Unit 7, Building 14, No. 95, Jiaoping Road, Tangxia Town, Dongguan City

Phone: +86-755-29692069

Fax: /

E-mail: 13691695526@139.com

1.4 Emergency telephone number

+86-755-29692069

Section 2- Hazards Identification

2.1 Classification of the substance or mixture

According to the classification requirements of the 11th revision of the United Nations GHS system.

Not applicable (Not within the scope of the 11th revised edition of the UNITED NATIONS GHS system).

2.2 Label elements

Symbols/Pictograms: Not applicable

Signal word: Not applicable

Hazard Statements: Not applicable

Precautionary statements

Prevention: Not applicable

Response: Not applicable

Storage: Not applicable

Disposal: Not applicable

2.3 Hazard description

Contact with the electrolyte of battery may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases. Fumes may cause dizziness or suffocation.

Using the battery under normal conditions according to the manufacturer's instructions is not hazardous. In the case of improper use, there is a risk of rupture, fire, hot, leakage of internal components, and may cause accidental losses. Improper use includes, but is not limited to, the following conditions: prolonged charging, short circuit, fire exposure, hard object impact, sharp object puncture, fragmentation and rupture.

Section 3- Composition/Information on Ingredients

Article

Chemical Name	CAS No.	Content%
Lithium Cobalt Oxide	12190-79-3	15-40
Graphite	7782-42-5	10-30
Phosphate(1-), hexafluoro-, lithium	21324-40-3	10-30
Copper	7440-50-8	7-13
Aluminum foil	7429-90-5	5-10
Nickel	7440-02-0	1-5

Section 4- First Aid Measures

4.1 Description of first aid measures

- General advice:** In case of accident or unwellness, seek medical advice immediately.
- Inhalation:** If fumes or combustion products are inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Ingestion:** Give water to rinse out mouth, then drink plenty of water, vomiting, and go to a doctor.
- Eye contact:** Keep eyelids apart and away from eye and moving the eyelids by lifting the upper and lower lids occasionally, flush eyes with plenty of water or saline water for at least 15 minutes, call a physician if irritation persists.
- Skin contact:** No apparent symptoms. If skin irritation persists, call a physician.
- Protecting of first-aiders:** Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms and effects, both acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically, Symptoms may be delayed.

Section 5- Fire Fighting Measures**5.1 Extinguishing media**

Suitable extinguishing media: Use fire extinguishing media suitable for the surrounding environment

Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

May decompose upon combustion to generate irritating, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.

5.3 Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear; Prevent, by any means available, spillage from entering drains or water courses; Use water delivered as a fine spray to control fire and cool adjacent area.

Section 6- Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area, dispose the case after the batteries cool and vapors dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors.

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and material for containment and cleaning up

Pick up and transfer to properly labeled containers. Avoid generation of dust

6.4 Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.
Disposal considerations advice is contained in Section 13 of the SDS.

Section 7- Handling and Storage**7.1 Precautions for safe handling**

Specific safe handling advice: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically conductive material.

7.2 Conditions for safe storage, including any incompatibilities

Do not place the battery cell near heating equipment, nor expose to direct sunlight for long periods. Elevated temperatures can result in shortened battery cell life and degrade performance. Store in cool place. Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids. Equipped with corresponding varieties and number of fire equipment and leakage emergency treatment equipment.

7.3 Reference to other sections

In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.。

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Occupational Exposure: No relevant regulations

Biological limit values: No relevant regulations

Predicted No Effect Concentration (PNEC) : No relevant regulations

Derived No effect level, DNEL: No relevant regulations

8.2 Exposure controls

Engineering Controls: Ensure adequate ventilation, especially in confined areas, Ensure that eyewash stations and safety showers are close to the workstation location, Use explosion-proof electrical/ventilating/lighting/equipment, Set up emergency exit and necessary risk-elimination area.

Personal protective equipment

Eye protection: Must wear appropriate anti-corrosion goggles. Wash hands or take a shower after working

Hand protection: Must wear acid and alkali resistant chemical protective gloves.

Respiratory protection: Must wear appropriate personal respiratory protective equipment.

Skin and body protection: Must wear acid and alkali resistant chemical protective clothing.

Section 9- Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Blue
Odor:	Odorless
Odor threshold:	Not applicable
pH:	Not applicable
Melting/freezing point:	Not applicable
Boiling Point, initial boiling point and Boiling range:	Not applicable
Flash Point (Closed cup, °C):	Not applicable
Evaporation rate:	Not applicable
Flammability:	No information available
Upper/lower flammability or explosive limits:	No information available
Vapor pressure:	Not applicable
Vapor Density (Air = 1):	Not applicable
Density/relative density (Water=1):	Not applicable
Solubility:	Not applicable
n-octanol/water partition coefficient:	Not applicable
Autoignition temperature:	Not applicable
Decomposition temperature(°C):	No information available
Kinematic viscosity(mm ² /s):	Not applicable

9.2 Other information

No information available

Section 10 -Stability and Reactivity

10.1 Reactivity

Contact with incompatible substances can cause decomposition or other chemical reactions.

10.2 Chemical stability

Stable under proper operation and storage conditions.

10.3 Possibility of hazardous reactions

In contact with oxidants causes severe reactions, and may cause a fire or explosion. Flammable, its gas or powder, if in contact with air, may form explosive mixtures. In contact with metal alkoxides may cause a fire.

10.4 Conditions to avoid

Do not subject battery to mechanical shock. Keep away from open flames, high temperature.

10.5 Incompatible materials

Conductive materials, water, seawater, strong oxidizers and strong acids.

10.6 Hazardous decomposition products

Carbon oxides, other irritating and toxic gases.

Section 11 – Toxicological Information

11.1 Information on hazard classes

Acute toxicity:

According to the available information, it does not meet the classification criteria.

Skin corrosion/irritation:

In the event of exposure to internal contents, vapor fumes may be very irritating to the skin and eyes.

Serious eye damage/eye irritation:

In the event of exposure to internal contents, vapor fumes may be very irritating to the skin and eyes.

Sensitization:

Not applicable

Germ cell mutagenicity:

Not applicable

Carcinogenicity:

Not applicable

Reproductive toxicity:

Not applicable

STOT - single exposure:

Not applicable

STOT - repeated exposure:

Not applicable

Aspiration hazard:

Not applicable

11.2 Information on other hazards

No information available

Other Information

See Section 11.1

Section 12-Ecological Information

12.1 Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

Section 13 – Disposal Considerations

Waste treatment methods

**Product disposal
recommendation:**

National and local regulations should be referred to before disposal.

**Packaging disposal
recommendation:**

Packaging disposal recommendation: Containers may be recycled or re-used. Observe National and local regulations.

**Disposal
recommendations:**

Deserted batteries shouldn't be treated as ordinary trash.
Shouldn't be thrown into fire or placed in high temperature.
Shouldn't be dissected, pierced, crushed or treated similarly.
Best disposal method is recycling.

Section 14 – Transport Information

ICAO/IATA (DGR 67th)	IMDG-CODE (Amdt 42-24)	ADR (ADR 2025)
14.1 UN number or ID number		
3480 & 3481	3480 & 3481	3480 & 3481
14.2 Proper shipping name		
Lithium ion batteries (including lithium ion polymer batteries) or; Lithium ion batteries packed with equipment (including lithium ion polymer batteries) or; Lithium ion batteries contained in equipments (including lithium ion polymer batteries).		
14.3 Transport hazard class(es)		
9	9	9
14.4 Packing Group		
N/A	N/A	N/A
14.5 Marine pollutant		
No	No	No
14.6 Special precautions for user		
Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR Packing Instructions (PI) PI966 and PI967 Section II appropriately.	International Maritime Dangerous Goods Code under Special Provision 188	European Agreement concerning the International Carriage of Dangerous Goods by Road under Special Provision 188
May be shipped without being declared as Class 9 dangerous goods, when meet to the requirements above.		

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport. UN38.3 Report No.: TCT250701B006.

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

International chemical inventory

With regard to transport, the following regulations are cited and considered:

Recommendations on the Transport of Dangerous Goods Model Regulations (TDG)

International Civil Aviation Association Dangerous Goods Regulation (IATA-DGR)

International Maritime Dangerous Goods Code (IMDG-CODE)

International Railway Transport Dangerous Goods Regulations (RID)

Agreement on the International Carriage of Dangerous Goods by Road (ADR)

Agreement on the International Carriage of Dangerous Goods by Inland Waters (ADN)

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

International Air Transport Association (IATA)

Technical Instructions for the Safe Transport of Dangerous Goods

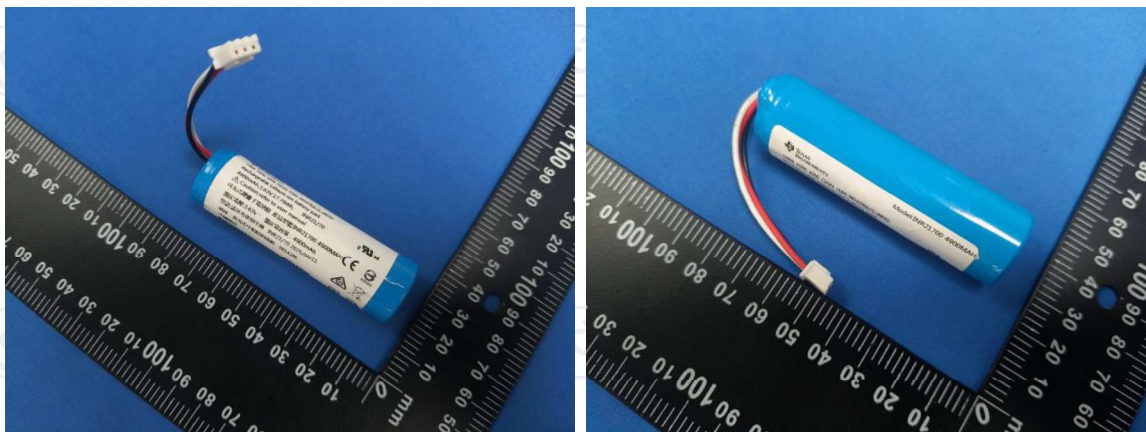
Classification and code of dangerous goods

OSHA Hazard Communication Standard

Section 16 – Other Information

SDS creation date: 2026 Version: 1.0

Sample photo:



Disclaimer

This SDS is only compiled for battery and based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. If the battery is used as a component in another product, the information in this SDS may not be applicable. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

*****End of document*****