



Material Safety Data Sheet (MSDS)



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Report No. : LTIJ250321A010EN

Sample Name : LITHIUM-ION RECHARGEABLE CELL

Client Name : West Coast Imports, Inc.

Guangzhou LTI Testing Technology Co., Ltd

Floor 4, Building 2, No.470, Xingnan Avenue, Nancun Town, Panyu District, Guangzhou, China

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Client Name : West Coast Imports,Inc.
Client Address : 6000 Bandini Boulevard,Commerce,California 90040
Sample Name : LITHIUM-ION RECHARGEABLE CELL
Sample Model : 18650 3.7V 1200mAh 4.44Wh
Brand Name : N/A
Specification : N/A
Buyer : N/A
Manufacturer : N/A
Exported to : U.S.A
Country of Origin : N/A

The above information is provided and confirmed by the applicant, and our company is not responsible for its authenticity.

Receive Date : 19. March, 2025
Testing period : 19. March, 2025- 25. March, 2025
Test Method : Please refer to the next page(s).
Test Result(s) : Please refer to the next page(s).



Approved by: Tariq Ma

Bruce Li

Reviewed by: Bruce Li

Lyra Du

Complied by: Lyra Du

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1. Product and Company Identification

- 1.1 **Sample Name** : LITHIUM-ION RECHARGEABLE CELL
1.2 **Model No** : 18650 3.7V 1200mAh 4.44Wh
1.3 **End Uses** : N/A
1.4 **Contact Person** : VINAY SABOO
1.5 **E-mail** : N/A
1.6 **24 hour Emergency Tel** : (323) 888-6690
1.7 **Other information** : N/A

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

According to OSHA Hazard Communication Standard (29 CFR 1910.1200): Not classified.

2.2 Label elements:

Hazard Pictogram(s): No symbol

Signal word: No signal word.

Hazard statements: none.

Health Hazards (Acute and Chronic): These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded material with skin and eyes should be avoided.

Sign/Symptoms of Exposure: A shorted battery can cause thermal and chemical burns upon contact with the skin.

2.3 Precautionary statements

Prevention: Not applicable

Response: Not applicable

Storage: Not applicable

Disposal: Not applicable

2.4 Other hazards

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixtures:

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Chemical Name	CAS No.	Weight(%)
Lithium Cobalt Oxide	12057-17-9	42.3
Graphite	7782-42-5	21.17
Lithium Hexafluorophosphate	21324-40-3	20.23
Copper (Cu)	7440-50-8	5.84
Polypropylene	9003-07-0	4.49
Aluminium (Al)	7429-90-5	3.65
Styrene-Butadiene Rubber (SBR)	61789-96-6	1.02
Polyvinylidene Fluoride(PVDF)	24937-79-9	0.77
Carboxymethylcellulose	9000-11-7	0.33
Nickel (Ni)	7440-02-0	0.2

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- If inhaled** : Excess fumes produced during burning,remove from exposure and move to fresh air immediately,maintain peogaster patency,give oxygen when breathing difficulty.
- In case of skin contact** : Remove contaminated clothes and rinse the skin with plenty of water and soap, clean the soiled clothes before wearing.
- In case of eye contact** : Lifting the upper and lower eyelids, flush the eyes with plenty of water or saline water.Get medical aid if necessary.
- If swallowed** : Under normal circumstances will not ingestion.Swallow accident, Get medical aid immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : no data available

4.3. Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. Fire Fighting Measures Danger

5.1 Explosion hazard

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Excessive heating will cause overflow or blast.

5.2 Fire-fighting method

The staff must equip with filter mask or isolated breathing apparatus, wear clothes which can defense fire and toxic gases. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible.

5.3 Fire extinguishing agent

Powder, CO₂, Sandy clay.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

If the battery material is released,remove personnel from area until the batteries cool down and fumes dissipate.Provide maximum ventilation to clear out hazardous gases. Use personal protective equipment.Avoid skin and eye contact or inhalation of vapors.

6.2 Environmental precautions

Prevent material from contaminating soil and from entering sewers or waterways.

6.3 Methods and materials for containment and cleaning up

In the event of battery rupture and leakage,collect all the released materials that are not hot or burning in an appropriate waste disposal container while wearing proper protective clothing and ventilate the area.Placed in approved container and disposed according to the local regulations.

7.HANDLING AND STORAGE

The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

7.1 Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

7.2 Other Precautions

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit value: no data available

Biological limit values: no data available

8.2 Appropriate engineering controls

The production process space is closed, need to strengthen the ventilation. Make sure that there is a wash and shower in the vicinity of the workplace. Set emergency evacuation routes.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection	Not necessary under conditions of normal use. Wear protective glasses if handling a leaking or ruptured battery.
Skin protection	Not necessary under conditions of normal use. Wear fireproofing, gas defense clothes in case of handling a leaking or ruptured battery
Respiratory protection	Not necessary under conditions of normal use.
Other Protections	No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	: Not available
Colour	: Not available
Physical state	: Not available
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available

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pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal temperature and pressure.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Do not heat, throw into fire, disassemble, short circuit, immerse in water etc.

10.5. Incompatible materials

Strong oxidizing agent, strong acids, strong alkalis

10.6. Hazardous decomposition products

Carbon oxides, metal oxides, etc.

11. TOXICOLOGICAL INFORMATION

The battery does not elicit toxicological properties during routine handling and use. If the battery is opened through misuse or damage, discard immediately. Internal components are irritant and sensitization.

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Acute toxicity	:	No known significant effects or serious harm.
Skin corrosion/irritation	:	No known significant effects or serious harm.
Serious eye damage/irritation	:	No known significant effects or serious harm.
Respiratory or skin sensitisation	:	No known significant effects or serious harm.
Germ cell mutagenicity	:	No known significant effects or serious harm.
Carcinogenicity	:	No known significant effects or serious harm.
Reproductive toxicity	:	No data available
STOT-single exposure	:	No data available
STOT-repeated exposure	:	No data available
Aspiration hazard	:	No data available

12. ECOLOGICAL INFORMATION

12.1 Eco-toxicity:

Toxicity to fish	:	no data available
Toxicity to daphnia and other aquatic invertebrates	:	no data available
Toxicity to algae	:	no data available
Toxicity to microorganisms	:	no data available

12.2. Environmental impact

Proper use and disposal of batteries will not harm the environment. Dispose of the battery, away from the water, rain and snow.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods

Recycle or dispose of in accordance with government, state & local regulations.

13.2 Disposal considerations

Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high

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temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

14. TRANSPORT INFORMATION

	Dangerous Goods Number:UN 3480
	UN Proper Shipping Name: Lithium ion batteries
IATA DGR(66 th Edition)	: Hazard Class: 9
	This product shall be complied with the requirements of section IB of Packing Instructions 965.
IMDG (2022Edition)	: Not regulated for transport of dangerous goods.
	No collapse or no damage during the course of transportation. Corresponding varieties and number of fire equipment and contingency processing equipment should be equipped during the course of transportation. Strictly prohibit put the goods together with oxidizer, acid etc., for transport. During transport, the goods should prevent exposure, rain and high temperature. Keep away from fire.
Transportation Attentions	:

15. REGULATORY INFORMATION

Regulatory Information:

《Dangerous Goods Regulation》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

16. Additional Information

16.1 Abbreviations and acronyms:

CAS	Chemical Abstracts Service
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods

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IATA	International Air Transportation Association
TWA	Time Weighted Average
STEL	Short term exposure limit
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
EC50	Effective Concentration 50%

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