

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

INR18650-26ME

3.6V 2600mAh

MANUFACTURER

HUAIAN TENPOWER LITHIUM CO., LTD

ADDRESS

2 Chaoyang Road, Industrial Park, Qingjiangpu District, Huaian, Jiangsu, China

COMPANY/UNDERTAKING IDENTIFICATION

Emergency Contact: 86 512 5675 9869

2. HAZARDS IDENTIFICATION

Lithium ion cells are not hazardous when used according to the instructions of the manufacturer under normal conditions. In case of abuse, there is a risk of rupture, fire, heat, or leakage of internal components, which could release hazardous materials.

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

3. COMPOSITION INFORMATION

material or ingredient	CAS No.	Wt %
lithium nickel cobalt manganese oxides	182442-95-1	35.78%
graphite	7782-42-5	19.85%
lithium hexafluorophosphate	21324-40-3	1.58%
Polyvinylidene fluoride	24937-79-9	0.52%
iron	7439-89-6	16.90%
Copper	7440-50-8	6.81%
Aluminum	7429-90-5	3.47%
Nickel	7440-02-0	0.19%
carbon black	1333-86-4	0.77%
styrene-butadiene rubber	9003-55-8	0.30%
carboxymethyl cellulose sodium salt	9004-32-4	0.24%
electrolyte solvents: ethelyne carbonate dimethyl carbonate propylene carbonate ethyl methyl carbonate	96-49-1 616-38-6 108-32-7 623-53-0	9.58%
Polyethylene	9002-88-4	2.00%
Polyethylene terephthalate	25038-59-9	2.01%

FURTHER INFORMATION

For information purposes:

(*) Main ingredients: Lithium hexafluorophosphate , organic carbonates

Because of the cell structure the dangerous ingredients will not be available if used properly.

During charge process a lithium graphite intercalation phase is formed.

Mercury content: Hg < 0.1mg/kg

Cadmium content: Cd < 1mg/kg

Lead content: Pb < 10mg/kg

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 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 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.

EXTINGUISHING 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 120°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.

STORAGE

Store in cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Keep away from heat and open flame.

PERSONAL PROTECTION

Store in a cool dry place.

Respirator:

Not required during normal operations.
even of a fire.

SCBA required in the

Eye/face protection:

Gloves:

Foot protection:

Not required beyond safety practices of employer.

Not required for handling of cells.

Steel toed shoes recommended for large container handling.

9. PHYSICAL AND CHEMICAL PROPETIES

Appearance

Form: Solid

Color: Various

Odor: Odourless

Important health, safety and environmental information

Test method

PH Value	N/A
Flash point	N/A
Lower explosion	N/A
Vapor pressure	N/A
Density	N/A
Water solubility	Insoluble
Ignition temperature	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

Cells are not hazardous when used properly. In case of fire or leakage combustion and decomposition products may cause irritation and toxicity to skin, eye and respiratory systems.

Toxicity data of some substance is listed:

Hydrogen fluoride:

Extremely toxic, May be fatal if inhaled or ingested. Readily absorbed through the skin contact may be fatal. Possible mutagen. LCLO: 50 ppm/30m (human beings), LC50: 1276 ppm/1h (rats).

Carbon and graphite:

Slightly hazards in case of skin contact (irritant), ingestion, inhalation, which will cause chronic damage to upper respiratory tract and cardiovascular system.

Copper:

File No./Rev.: MSDS—163/C

Dust may cause respiratory irritation.

LD50: 3.5 mg kg⁻¹(mouse).

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 INFORMATION

Recommended methods for safe and environmentally preferred disposal :

Product (waste from residues)

Do not throw out a used battery cell. Recycle it through the recycling company.

Contaminated packaging

Neither a container nor packing is contaminated during normal use. When internal materials leaked from a battery cell contaminates, dispose as industrial wastes subject to special control.

RCRA Waste Code:

No regulated

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

14. TRANSPORTATION INFORMATION

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

The International Civil Aviation Organization (ICAO) Technical Instructions, Packing Instruction 965, Section IB, 966/967 Section II

The International Air Transport Association (IATA) Dangerous Goods Regulations, Packing Instruction 965, Section IB, 966/967 Section II (67th Edition)

The International Maritime Dangerous Goods (IMDG) Code

US Hazardous Materials Regulations 49 CFR(Code of Federal Regulations)

Sections 173-185 Lithium batteries and cells,

The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3

Lithium batteries, Rev.8,

The article is nor restricted to IMO IMDG code according to special provision 188(Amdt.42-24)

Hazard Classification: The goods are complied with the requirements of Section IB of Packing Instructions 965 of 67th DGR Manual of IATA(2026 edition), Special provision 188 of IMDG CODE(Amdt.42-24), including the passing of the UN38.3 test.

Our products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 – T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Testes and Criteria.

Test results of the UN Recommendation on the Transport of Dangerous Goods

Manual of Test and Criteria(38.3 Lithium battery)	Test results	Remark
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No.	Test items		
T1	Altitude Simulation	Pass	
T2	Thermal Test	Pass	
T3	Vibration	Pass	
T4	Shock	Pass	
T5	External Short Circuit	Pass	
T6	Impact	Pass	
T7	Overcharge	Pass	For pack and single cell battery only
T8	Forced Discharge	Pass	

UN code:3480,3481

15. REGULATORY INFORMATION

For shipping regulations see section 14.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. Jiangsu Tenpower Lithium Co., Ltd. makes no warranty, expressed or implied, with respect to this information and disclaims all liabilities from reliance on it

Prepared and Approved By
Huaian Tenpower Lithium Co., Ltd
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