



## Material Safety Data Sheet (MSDS) Report

MSDS Number: SDS202403184863

Applicant: Anhui JBH Medical Apparatus Co., Ltd.

No. 116 Qicang Road, Mingguang City, Chuzhou City, Anhui Province, 239400, China.

### Sample Description:

Product name : Electric Wheelchair  
Product code : DC07  
Battery type : Polymer lithium-ion batteries  
Battery model : FDB02-D23  
Nominal voltage : 24V  
Nominal capacity : 6Ah/144Wh  
Battery dimension : 270mm\*98mm\*55mm  
Data reviewed : Feb 12, 2025

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Approved By:

Pingo Zhang, Manager  
On behalf of Shanghai Ruifu Co., Ltd.

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# MATERIAL SAFETY DATA SHEET

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Electric Wheelchair DC07  
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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Product name : Electric Wheelchair  
Product code : DC07  
Battery type : Polymer lithium-ion batteries  
Battery model : FDB02-D23  
Nominal voltage : 24V  
Nominal capacity : 6Ah/144Wh  
Battery dimension : 270mm\*98mm\*55mm

### Recommended use of the chemical and restrictions on use

Identified use : Portable transportation tool

### Details of the supplier of the safety data sheet

Anhui JBH Medical Apparatus Co., Ltd.  
No. 116 Qicang Road, Mingguang City,  
Chuzhou City, Anhui Province, 239400,  
China.

### Emergency telephone number

Tel: +86-18936033123 or contact your local  
emergency center.

### Product Information

Tel: +86-18936033123/025-85780899  
E-mail: sunny@jbhmedical.com

## SECTION 2. HAZARDS IDENTIFICATION

### GHS-Classification(29 CFR 1910.1200-OSHA HazCom 2012)

Hazard classification : Flammable liquid, Category 2  
Highly flammable liquid and vapour.  
Skin sensitisation, Category 1  
May cause an allergic skin reaction.  
Carcinogenicity, Category 2, inhalation  
Suspected of causing cancer.  
Specific target organ toxicity - repeated exposure, Category 1,  
Inhalation - Causes damage to organs through prolonged or  
repeated exposure if inhaled.

### GHS-Labeling(29 CFR 1910.1200-OSHA HazCom 2012)

Symbol(s) : 

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.



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H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

## Precautionary statements

### : Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P402 + P404 Store in a dry place. Store in a closed container.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards

This product containing lithium-ion battery is an article pursuant to 29 CFR 1910.1200 and, as such, is not subject to the OSHA Hazard Communication Standard requirement(HazCom 2012). The information contained in this Material Safety Data Sheet contains valuable information critical to the safe handling and proper use of the product.

The above GHS hazardous classification are derived based on the internal ingredients of battery under extreme exposure scenarios, such as breakage, leakage or being abused.



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As a solid, manufactured article, exposure to hazardous ingredients is not expected with normal use. The potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically, electrically or physically abused/damaged. If the battery is compromised and starts to leak, based upon the battery ingredients, the contents are classified as hazardous.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product form : Manufactured article

### Hazardous components

| Component Chemical Name              | CAS Number | Percent of Total |
|--------------------------------------|------------|------------------|
| Nickel cobalt manganese acid lithium | -          | 58-62%           |
| Carbon                               | 7440-44-0  | 12-15%           |
| Copper                               | 7440-50-8  | 7-10%            |
| Graphite                             | 7782-42-5  | 8%               |
| PVDF                                 | 24937-79-9 | 6%               |
| Aluminum                             | 7429-90-5  | 5%               |
| Ethylene carbonate                   | 96-49-1    | 5%               |
| Nickel                               | 7440-02-0  | 2-5%             |
| Dimethyl carbonate                   | 616-38-6   | 2-5%             |
| Lithium                              | -          | 2-3%             |

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : None required under normal use condition.  
Electrolyte solution spill: unlikely route of exposure. Evacuate victim to a safe area as soon as possible. Loosen tight clothing. If breathing is difficult, administer oxygen. Seek medical attention if symptom persist.
- In case of skin contact : None required under normal use condition.  
If battery is leaking and material contacts the skin, remove any contaminated clothing and flushed exposed skin with running water for at least 15 minutes. If irritation, injury or pain persist, seek medical advice.
- In case of eye contact : None required under normal use condition.  
If material is leaking and contact the eyes, flush thoroughly for at least 15 minutes under running water (remove contact lenses if easy to do). Occasionally lifting the upper and lower eyelids until no evidence of the chemical remains. Remove contact lenses. Protect unharmed eye. Get medical aid.



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- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : None known symptom under normal use condition.
- Notes to physician : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : In case of fire where lithium ion batteries are present, flood the area with water. If any batteries are burning, water may not extinguish them, but will cool the adjacent batteries and control the spread of fire.  
CO<sub>2</sub>, dry chemical and foam extinguishers are preferred for small fires, but also may not extinguish burning lithium ion batteries. Burning batteries will burn themselves out. Virtually all fires involving lithium ion batteries can be controlled with water. LITH-X or copper powder fire extinguishers, sand, dry ground dolomite or soda ash may also be used.
- Unsuitable extinguishing media : No further information available.
- Specific hazards during firefighting : This battery product is considered safe under normal use conditions, but it will burn in case of fire.  
Burning and disassembly batteries may emit acrid smoke, irritating fumes, and toxic fumes of hazardous oxides of carbons and other toxic by-products, in the event of fire and/or explosion do not breathe fumes.  
Thermal shock may cause battery case to crack open.  
Containers may explode when heated.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Battery decompose under fire conditions. The smoke may contain polymer fragments of varying composition and unidentified toxic and/or irritating compounds.  
Carbon dioxide and carbon monoxide, metal oxides/copper oxide fumes and other toxic by-products.
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : In the event of fire and breakage, please ensure that:  
Avoid contact with skin, eyes or clothing.  
Use personal protective equipment.  
Keep unauthorized personnel away.  
Stay upwind.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
If battery material is released, remove personnel away from area until fume dissipate. Provide maximum ventilation to clear out hazardous gases. Remove ignition sources.  
Damaged batteries that are not hot or burning should be placed in a sealed plastic bag or container.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Do not touch spilled material.  
Absorb spilled material(electrolyte) with non-reactive/inert absorbent such as dry sand, vermiculite, clay or earth.  
If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc.  
Sweep up and transfer to properly labeled containers for recycle or disposal according to local/national regulations.
- Other information : Comply with all applicable national and local regulations.

## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Battery:  
Use only approved chargers and procedures.  
Improperly charging a cell may cause the cell or battery to flame or damage.  
Do not drop battery, puncture, or attempt to open battery case.  
Avoid contact with the internal components of a battery.  
Do not subject product to open flame or fire and avoid situations that could cause arcing between terminals.  
For personal protection see section 8.
- Conditions for safe storage : Store batteries under roof in cool, dry, well-ventilated areas separated from incompatible materials and from activities that may create flames, spark, or heat.  
Observe label precautions.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters



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- Engineering measures** : Store sealed batteries at ambient temperature.  
Never recharge batteries in an unventilated, enclosed space.  
Do not subject product to open flame or fire.
- Personal protective equipment**
- Respiratory protection : None required under normal conditions of use.
- Hand protection : None required under normal conditions of use.
- Eye protection : None required under normal conditions of use.
- Skin and body protection : None required under normal conditions of use.
- Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Manufactured article
- Colour : Black (battery)
- Odour : Odorless
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : Not applicable
- Evaporation rate : No data available
- Flammability : Non-flammable
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : Not applicable
- Relative vapour density : No data available
- Relative density : No data available
- Density : No data available
- Water solubility : Insoluble in water



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Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity, dynamic : Not applicable

Viscosity, kinematic : No applicable

Oxidizing properties : No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : This product is non-reactive under normal conditions of use, storage and transport.

Chemical stability : Stable under recommended storage conditions. Sealed and normally functioning batteries are considered stable.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : Heat, flames and sparks.  
Mechanical abuse (such as crushing, piercing and disassembly) and electrical abuse (such as recharging, voltage reversal and short circuiting).

Incompatible materials : Acids, oxidizing agents, chloride, metal and conductive materials.

Hazardous decomposition products : None under normal operating conditions.  
Thermal decomposition during fire produces hazardous oxides of carbon (mainly CO and other VOC's), metal oxides/copper oxide fumes, and other toxic by-products.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.



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## **Carcinogenicity**

Not classified based on available information.

## **Reproductive toxicity**

Not classified based on available information.

## **STOT - single exposure**

Not classified based on available information.

## **STOT - repeated exposure**

Not classified based on available information.

## **Aspiration toxicity**

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Under normal conditions of use, this product does not present environmental hazard.

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

General advice : This battery should be recycled if possible and should not be allowed to enter drains, water courses or the soil. This product must be disposed of in a safe manner (send to a licensed waste management company). Dispose of in accordance with all applicable national and local regulations.

## SECTION 14. TRANSPORT INFORMATION

### **International transport regulations**

#### **GROUND TRANSPORT (US DOT, 49 CFR 172)**

UN Number: 3171

Proper Shipping Name: Battery-powered vehicle or battery-powered equipment

Hazard classes: 9 (miscellaneous hazardous materials)

Packaging group: Not applicable (N/A)



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## SEA TRANSPORT/INTERNATIONAL MARITIME DANGEROUS GOODS(IMDG CODE, 2022 edition amendment 41-22)

UN Number: 3171

Proper Shipping Name: Battery-powered vehicle or battery-powered equipment

Hazard classes: 9

Packaging group: Not applicable(N/A)

Special provision: 240, 961, 962, 971

LQ: No

EQ: No

EmS No.: F-A,S-I

Marine pollutant: No



## AIR TRANSPORT/INTERNATIONAL AIR TRANSPORT ASSOCIATION(IATA DGR, 66th edition)

UN Number: 3171

Proper Shipping Name: Battery-powered vehicle or battery-powered equipment

Hazard classes: 9

Packaging group: Not applicable(N/A)

EQ: E0

Special provision: A21, A67, A87, A94, A164, A214

Packing instruction (cargo aircraft): 952

Packing instruction (passenger aircraft): 952

ERG code: 9L



| Method | Technical Guidelines   | Packing Instruction and Special   |
|--------|--|---|
| Air    | 2025-2026 Edition of the ICAO Technical Instruction for the Safe Transport of Dangerous Goods by Air (Technical Instructions) and the 66th Edition of the IATA Dangerous Goods Regulations (IATA DGR). | Packing Instruction 952<br>Limit per package:<br>No limit(passenger and cargo). |
| Sea    | IMDG Code (2022 edition amendment 41-22)   | Special Provision:<br>240, 961, 962, 971  |

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## SECTION 15. REGULATORY INFORMATION

- SARA 302** : Health hazard(battery internal ingredients).
- SARA 311/312 Hazards** : Not regulated.
- SARA 313 Component(s)** : None is considered hazardous and are subjected to reporting requirements of section 313 title III of the superfund amendments and reauthorization act of 1986 (SARA) and 40 CFR part 372.
- California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16. OTHER INFORMATION

### Further information

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### Disclaimer:

This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by us to be dependable and is accurate to the best of our knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. We assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

**\*\*End of Material Safety Data Sheet\*\*\***