



Material Safety Data Sheet (MSDS) Report

MSDS Number: SDS202512165926

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 : Lithium-ion battery
Battery model : BBS-2412-5
Nominal voltage : 24V
Nominal capacity : 12Ah/288Wh
Data reviewed : Jan 1, 2026

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Approved By:

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



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 1 of 11

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name : Electric Wheelchair
Product code : DC07
Battery type : Lithium-ion battery
Battery model : BBS-2412-5
Nominal voltage : 24V
Nominal capacity : 12Ah/288Wh

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: +86-18010908028,
or contact your local emergency number.

Product Information

Tel: +86-550-8108866
E-mail: 1912472242@qq.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

According to China national standard GB30000-2013 "Rules for Classification and Labelling of Chemicals", the product has no GHS hazard under normal conditions of use and does not need to be classified.

If in contact with the content of battery then it requires special first aid measures. If on skin, rinse well with soap and water. Immediately flush eye(s) with plenty of water for at least 15 minutes. Rinse mouth with water and do not induce vomiting. Consult a physician. Show this safety data sheet to the doctor in attendance.

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

GHS Classification - China standards(GB30000-2013)

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.



MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 2 of 11

GHS Labelling - China standards(GB30000-2013)

Symbol(s)



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

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:



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 3 of 11

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

Lithium ion battery contains flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (150°C), when damaged or abused (e. g., mechanical damage or electrical overcharging). May burn rapidly with flare-burning effect. May ignite other batteries in close proximity

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.

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.

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

Chemical Component	CAS Number	Classification (GB30000-2013)	Percent of Total Weight /%[weight]
Lithium Nicke Cobalt Aluminum oxide	193214-24-3	Skin Sens. 1 Carc. 2	<40%
Graphite	7782-42-5	Not classified	<26%
Ethylene Carbonate	96-49-1	Acute Tox. 4 Eye Irrit. 2 STOT RE 2	5-20%
Contains Electrolyte salt and solvents	-	Flam. Liq. 2; H225	<15%
Copper	7440-50-8	Not classified	3-15%
Aluminum	7429-90-5	Not classified	2-10%



MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07

MSDS Number: SDS202512165926

Revision Date: 01/01/2026

Page: 4 of 11

Version: 1.0

Nickel	7440-02-0	Skin Sens. 1 Carc. 2 STOT RE 1 Aquatic Chronic 3	<5%
Lithium hexafluorophosphate	21324-40-3	Acute Tox. 3 Skin Corr. 1A Eye Dam. 1 STOT RE 1	0.05-5%
Polyvinylidenefluoride	24937-79-9	Not classified	<1%

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.
- 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



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07

MSDS Number: SDS202512165926

Revision Date: 01/01/2026

Page: 5 of 11

Version: 1.0

- 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.
CO2, 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.
May decompose upon combustion to generate irritating, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.
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.

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.



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 6 of 11

- 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 : Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and safety gloves. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well ventilated place. Avoid disassembling the battery at will and reversing battery polarity within the battery assembly. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. If the electrolyte leaks, avoid directly contacting with eyes and skin. Avoid inhalation. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives. For personal protection see section 8.
- Conditions for safe storage : Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

- 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. Wear safety gloves.
- Eye protection : None required under normal conditions of use. Wear chemical



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 7 of 11

safety glasses if needed.

Skin and body protection : None required under normal conditions of use. Wear appropriate protective clothing.

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 : Solid

Appearance : No data available

Colour : Black (battery)

Odour : Odorless

Odour Threshold : No data available

pH : 8-9 (battery)

Melting point/freezing point : No data available

Boiling point/boiling range : >300°C

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 : Partial soluble in water (battery)

Solubility in other solvents : No data available

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

Thermal decomposition : No data available



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 8 of 11

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 : Avoid misoperation, exposure to heat and open flame. Avoid mechanical or electrical abuse and overcharge. Prevent short circuits and short circuits caused by movement.

Incompatible materials : Strong oxidizing agents, combustible materials and corrosives.

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.

The electrolyte in the battery causes skin irritation.

Serious eye damage/eye irritation

Not classified based on available information.

The electrolyte in the battery causes eye irritation.

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.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.



MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 9 of 11

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 (List of dangerous goods/GB 12268-2025)

UN Number: 3556

Proper Shipping Name: VEHICLE, LITHIUM ION BATTERY POWERED

Hazard classes: 9(miscellaneous hazardous materials)

Packaging group: Not applicable(n/a)

Special provision: 384|388|405

LQ: 0

EQ: E0

IBC instruction: P912

SEA TRANSPORT/INTERNATIONAL MARITIME DANGEROUS GOODS(IMDG Code, 2024 Edition Amendment 42-24)



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 10 of 11

UN Number: 3556
Proper Shipping Name: VEHICLE, LITHIUM ION BATTERY POWERED
Hazard classes: 9
Packaging group: Not applicable(n/a)
Special provision: 384,388,405,961,962
LQ: 0
EQ: E0
Packaging instruction: P912
EmS No.: F-A,S-I
Marine pollutant: No



AIR TRANSPORT/INTERNATIONAL AIR TRANSPORT ASSOCIATION(IATA DGR, 67th edition)

UN Number: 3556
Proper Shipping Name: VEHICLE, LITHIUM ION BATTERY POWERED
Hazard classes: 9
Packaging group: Not applicable(n/a)
EQ: E0
Special provision: A87|A118|A120|A154|A214
Packing instruction (cargo aircraft): 952
Packing instruction (passenger aircraft): 952
ERG code: 12FZ



Metho d	Technical Guidelines	Packing Instruction and Special Provisions
Air	2025-2026 Edition of the ICAO Technical Instruction for the Safe Transport of Dangerous Goods by Air (Technical Instructions) and the 67th Edition of the IATA Dangerous Goods Regulations (IATA DGR).	Packing Instruction 952 Limit per package: No limit(passenger and cargo).
Sea	IMDG Code (2024 Edition Amendment 42-24)	Special Provision: 384,388,405,961,962

The battery testing meets all requirements under UN Manual of Tests and Criteria Part III, subsection 38.3(Test report number: 1124050444).



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MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Electric Wheelchair DC07
Revision Date: 01/01/2026
Version: 1.0

MSDS Number: SDS202512165926
Page: 11 of 11

SECTION 15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (Decree No. 591 of the State Council of the People's Republic of China)
General rules for preparation of chemical safety data sheet (GB16483-2008)
Guidance on the compilation of safety data sheet for chemical products(GB/T 17519-2013)
Rules for classification and labelling of chemicals(GB30000-2013)
List of dangerous goods (GB12268-2012)
Classification and code of dangerous goods (GB6944-2012)
Occupational exposure limits for hazardous agents in the workplace - Part 1: Chemical hazardous agents(GBZ 2.1-2019)

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 01/01/2026

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*****



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