



Material Safety Data Sheet (MSDS) Report

MSDS Number: SDS202312254731

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 : D25
Battery type/model : 24V11.6Ah
Battery voltage : 24V
Battery capacity : 11.6Ah/278.4Wh
Battery dimension : 99*106*330mm(T*W*L)
Battery weight : 1839.2g
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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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name : Electric Wheelchair
Product code : D25
Battery type/model : 24V11.6Ah
Battery voltage : 24V
Battery capacity : 11.6Ah/278.4Wh
Battery dimension : 99*106*330mm(T*W*L)
Battery weight : 1839.2g

Recommended use of the chemical and restrictions on use

Identified uses : 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

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

GHS Classification - China standards(GB30000-2013)

Hazard classification : Skin corrosion, Category 1A
Serious eye damage, Category 1
Reproductive toxicity, Category 2

Symbol(s) :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H360 Flammable liquid and vapour.

GHS Labelling - China standards(GB30000-2013)

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have

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been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P363 Wash contaminated clothing before reuse.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see ... on this label).
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P405 store locked up

Disposal:

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

Other hazards

This lithium-ion batteries are manufactured article, exposure to hazardous ingredients is not expected with normal use. The potential for exposure should not exist unless the batteries 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.

Immersion in high conductivity liquids may cause corrosion and breaching of the battery enclosure. The electrolyte solution inside of the battery may react with alkaline (basic) materials and present a flammability hazard.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product form : Manufactured article/solid

Hazardous components

Lithium-ion battery

Chemical Component	CAS Number	Classification (GB30000-2013)	Percent of Total Weight % [weight]
Lithium Cobalt Oxide (LiCoO ₂)	12190-79-3	Repr. 1B	37.82



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Phosphate(1-), hexafluoro-, lithium	21324-40-3	Acute Tox. 3 Skin Corr. 1A Eye Dam. 1 STOT RE 1	18.56
Graphite	7782-42-5	Not classified	16.48
Copper Foil (Cu)	7440-50-8	Not classified	9.74
Aluminum Foil	7429-90-5	Not classified	9.03
Polyethylene	9002-88-4	Not classified	3.03
Polyvinylidene fluoride(PVDF)	24937-79-9	Not classified	1.46
Polypropylene	9003-07-0	Not classified	1.3
Nickel(Ni)	7440-02-0	Not classified	1.08
Nylon	24937-16-4	Not classified	0.8
Styrene-Butadiene Rubber(SBR)	61789-96-6	Not classified	0.39
Carboxymethylcellulose	9000-11-7	Not classified	0.31

SECTION 4. FIRST AID MEASURES

Under normal conditions of battery use, internal components will not present a health hazard. The following measures are only applicable if exposure has occurred to components when battery leaks, is exposed to high temperatures or is mechanically, electrically or physically abused/damaged.

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Consult a physician.
- If inhaled : Move to fresh air.
If breathed in, move person into fresh air.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
Wash contaminated clothing before re-use.



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- If symptoms persist, call a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
If symptoms persist, call a physician.
- 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 : Not required under normal use condition.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use any fire extinguishers for solid material fire, the recommended sequence was sand, fire extinguisher blanket, CO₂, powder. Dry and neutralize.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : There was no electrical shock hazard for single cell, or battery module which voltage was less than 50V DC (the safety voltage). But if the pack had the voltage was bigger than 50V DC, the electrical shock shall be protected.
- Hazardous combustion products : Carbon dioxide and carbon monoxide, metal oxides fumes. Polymers decompose under fire conditions. The smoke may contain polymer fragments of varying composition and unidentified toxic and/or irritating compounds.
If electrolyte met with water, hydrofluoric acid would be created.
- 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, approved full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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- 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.
- Environmental precautions : Absorb spilled material with non-reactive absorbent such as vermiculite, clay or earth.
Prevent from migration into soil, sewers and natural waterways.
Inform local authorities if this occurs.
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Evacuate spill area immediately and remove sources of ignition.
Do NOT touch spilled material.
Spills may be absorbed on or non-combustible material/absorbents such as vermiculite, Dry earth, DRY sand.
Move battery to well ventilated area to prevent gas accumulation.
- Other information : Comply with all applicable national and local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Improperly charging a battery may cause battery to flame or damage.
In case of cell damage, possible release of dangerous substances and a flammable gas mixture.
Do not drop battery, puncture, or attempt to open battery case.
Avoid contact with the internal components of a battery.
Handle battery carefully to avoid puncturing case or electrically shorting terminals.
Do not expose the battery to excessive physical shock or vibration. Short-circuiting should be avoided.
Elevated temperatures can result in loss of battery performance, leakage, or rust. Do not expose the battery to open flames.
For personal protection see section 8.
- Conditions for safe storage : Store batteries in cool, dry, well-ventilated areas separated from incompatible materials and keep away from flames, spark, or heat.
The lithium ion battery should be between 25% and 75% of full charge when stored for a long period of time.
Store sealed batteries at ambient temperature.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Airborne exposures to hazardous substances are not expected when the cells or batteries are used for their intended purposes. Exposure standards are not applicable to the sealed articles.

Personal protective equipment

- Respiratory protection : None required for normal handling of the product.
- Hand protection : None required for normal handling of the product.
Use neoprene or natural rubber gloves if handling an open or leaking battery.
- Eye protection : None required for normal handling of the product.
- Skin and body protection : None required for normal handling of the product.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Solid
- Color : Black
- Odor : Odorless
- 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 (solid, gas) : Non-flammable
- Upper explosion limit : Non-explosive
- Lower explosion limit : Non-explosive
- Vapour pressure : Not applicable
- Relative vapour density : No data available
- Relative density : No data available

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Density	: No data available
Water solubility	: Insoluble in water
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	: Not an oxidizer

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Non-reactive under normal use, storage and transport conditions.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization. If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.
Conditions to avoid	: Keep away from heat/sparks/open flames/hot surfaces.
Incompatible materials	: Oxidizing agents, alkalis, acid.
Hazardous decomposition products	: Carbon monoxide/dioxide, lithium oxide fumes may produce irritating and highly toxic gases from decomposition by heat and combustion during burning.

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 an 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

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

Mobility in soil

No data available.

Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Product should be recycled if possible and must be disposed of in a safe manner. Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion.
The battery must be neutralized through an approved secondary treatment facility prior to disposal as a hazardous waste. Recycling of battery can be done in authorized facility, through licensed waste carrier.
Dispose of in accordance with all applicable local and national regulations.

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SECTION 14. TRANSPORT INFORMATION

International transport regulations

GROUND TRANSPORT (JT/T 617-2018)

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)



SEA TRANSPORT/INTERNATIONAL MARITIME DANGEROUS GOODS(IMDG, 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

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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 Limit per package: No limit(passenger and cargo).
Sea	IMDG Code (2022 Edition Amendment 41-22)	Special Provision: 240, 961, 962, 971

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)
Classification and labels of dangerous chemical substances commonly used (GB13690-2009)
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: 02/12/2025

Disclaimer:

This MSDS 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.



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