

Material Safety Data Sheet

File No.: EBO2601031-M055

Date of Issue: January 9, 2026

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1. Identification of Substance

Product Details

Product Name: DRY BATTERY

Product Model: R20, R14,R6, R6SAA, R03, R03AAA, 6F22,LR20,LR14,LR6,LR03, 6LR61

Manufacturer/Supplier By: SHANDONG HUATAI NEW ENERGY BATTERY CO.,LTD.

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2. Hazards Identification

Hazard description: These batteries are no “substances” or “mixtures” according to Regulation (EC) No 1907/2006 EC. Instead they have to be regarded as “articles”, no substances are intended to be released during handling. Therefore there is no obligation to supply a “safety data sheet according to Regulation (EC) 1907/2006, Article 31”.

Routes of Entry: Not applicable under normal conditions.

Health Hazards: If battery leaking, exposure to caustic ingredients may occur. Therefore, may cause Sensitization by skin contract.

Hazards to Environment: Not applicable.

Fire and Explosion Hazards: Not applicable.

3. Composition/Data on Components

COMPONENT	CAS No.	% By wt.
Zn	7440-66-6	23%-27%
Mno ₂	1313-13-9	27%-31%
C	7782-42-5	3%-4%
(C3H6)n	9003-07-0	2%-3%
CU	7440-50-8	1%
KON	1310-58-3	4.5%-5.5%
H ₂ O	7732-18-5	8%-9%
Fe	7439-89-6	17%-19%
Cr	7440-47-3	4%-5%
Ni	7440-02-0	1.5%-2.5%

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4. First aid Measures

None unless internal materials exposure. If contents are leaked out, observe following instructions.

Eyes:	Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin:	Remove contaminated clothing. Wash with plenty of soap and water. If irritation occurs, get medical attention.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	If swallowing a battery, consult a physician immediately

5. Fire Fighting Measures

Extinguishing Media:	Dry chemical, carbon dioxide, alcohol foam, water fog.
Special hazards arising from the substance or mixture :	Battery may explode or leak if recharged or in fire. Contact with combustible material may cause fire. Short-circuit batteries may cause burns. Electrolyte solution is corrosive to all human tissues. Fire will produce toxic gases/fumes and black smoke.
Special Fire-Fighting Procedures:	As in any fire, firefighters should wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

6. Accidental Release Measures

Chemical contents are sealed in metal can. However, if the battery is mechanically or electrically abused, contents may leak out. In such case, take action as showing below.

Personal precautions:	Temporary attaching of electrolyte to skin does not cause serious health hazard. Be sure the ventilation and washing out of electrolyte quickly.
Environmental precautions :	Avoid leakage getting into the earth, ditches, or waters. Avoid direct Ly releasing the washing wastewater into the environment.
Method and materials for containment and methods and materials for cleaning up:	If the electrolyte leaks, use dry soil, dry sand, or other non-combustible materials to absorb and cover the leakage. Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate the area and wash spill site after material pickup is complete.

7. Handling and Storage

Handling:	Do not recharge batteries. Do not short circuit or install incorrectly. Do not open, disassemble, puncture or deform. Avoid mechanical or electrical abuse.
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Do not carry batteries loose in a pocket or bag.

Do not swallow batteries.

Keep batteries away from children.

Do not mix with used or other types of batteries together.

Do not remove the battery label. Do not throw batteries into water or fire.

Always follow the warning information on the batteries and in the manuals of devices.

In case of battery change always replace all batteries by new.

Store in a cool, dry and ventilated place at room temperature.

Avoid large temperature changes.

Do not refrigerate batteries - this will not make them last longer.

If possible, store the batteries in original packaging (short circuit protection).

Protect from physical damage.

For storage of large amounts, a fire alarm is recommended in the storehouse.

Protect from moisture and sunlight.

Keep away from heat and ignition sources. - No smoking.

Keep away from combustible materials and incompatible materials. Keep out of reach of children.

Storage:

8. Exposure Controls and Personal Protection

Occupational exposure limits:

None.

Engineering controls:

Ensure good ventilation. This can be achieved by localized extraction or general ventilation.

Personal protection equipment

Respiratory protection:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hand protection:

Under normal condition of use and handling no special protection is required for sealed battery. In the event of battery case breakage, should be wear appropriate safety gloves.

Eye protection:

Under normal condition of use and handling no special protection is required for sealed battery. Use appropriate safety glasses when there is the risk of splash.

Skin and body protection:

Under normal condition of use and handling no special protection is required for sealed battery. It is recommended to wear appropriate protective clothing when the battery case is broken.

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Hygiene measures: Do not get in eyes. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

General Information

Form:	Solid
Color:	Multicolor
Odor:	Odorless
Boiling Point:	No data available
Melting Point:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Solubility In Water:	No data available
Specific Gravity (H₂O = 1):	No data available
pH:	No data available
Freezing Point:	No data available
Molecular Weight:	Mixture, Not Applicable

10. Stability and Reactivity

Chemical Stability:	This material is chemically stable under normal and storage and handling conditions.
Conditions to Avoid:	Elevated temperatures fire and ignition sources, mechanical abuse and electrical abuse.
Hazardous Decomposition	
Products:	When exposed to fire or extreme heat, batteries may emit toxic fumes.

11. Toxicological Information

Inhalation, skin contact and eye contact are possible when the battery is opened.
Exposure to internal contents, the corrosive fumes will be irritation to skin, eyes and mucous membranes.
Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

12. Ecological Information

Environmental Impact:	Proper use and disposal of the battery will not harm the environment. Dispose of the battery, away from water, rain and snow.
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13. Disposal Considerations

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Appropriate Method of Disposal of Substance or Preparation

Dispose of the battery in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

14. Transport Information

Land transport

ADR/RID class: Not regulated.

Maritime transport

Non-hazardous for sea transport.

Air transport

Not restricted to IATA DGR according to special provision A123.

The Dry Battery according to SP A 123 of the 2026 IATA Dangerous Goods regulations 67th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Dry Battery.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The dry Battery having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent:

- (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and
- (b) Accidental activation.

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

Regulatory Body	Special Provisions
ADR	Not regulated
IMDG Code 2024 Edition (Amendment 42-24)	Not regulated
UN	Not regulated
US DOT	49 CFR 172.102 Provision 130
IATA Dangerous Goods Regulations (DGR) 2026 67th Edition	A123
ICAO	Not regulated

batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

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15. Regulations

UN Model Regulations Rev. 24 (2025)

ICAO Emergency Response Guidance, 2025-2026 Edition

IATA (International Air Transport Organization): Dangerous Goods Regulations 67th Edition; Effective January 1st, 2026

ADR 2025 - Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG Code 2024 Edition (Amendment 42-24)

EU Battery Directive(EU) 2023/1542

16. Other Information

DISCLAIMER OF LIABILITY

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