Date of Issue: Dec.25 2021 Report No.: RSZBHST211213891-2

Carbon Dry Battery



1. PRODUCT AND COMPANY IDENTIFICATION

Product Details

Product Name:

Product Use:

Model:

Supplier Name:

Carbon Dry Battery
Used in portable applications

^^^AA R03P UM-A-2.5V

Avenue , Xia Jia Ż∂rle Avenue , Xia Jiao Village, **Supplier Address:** Dan Zao Town, Nanital district, Foshan city Guangdong, China

+86-0757-81289782 **Supplier Phone Number:**

Emergency telephone

number:

+86-0757-81289782

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	Percent of Content (%)
Zinc	7440-66-6	15-40
Carbon Black	1333-86-4	10-30
Manganese dioxide	1313-13-9	10 - 30
Zinc chloride	7646-85-7	7-13
Iron	7439-89-6	5 - 10
Distilled water	7732-18-5	1-5

3. HAZARDS IDENTIFICATION



Report No.: RSZBHST211213891-2 Date of Issue: Dec.25 2021

Carbon Dry Battery





Hazard description: Harmful! Do not short circuit, recharge, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above the declared operating temperature range of the product. Risk of fire or explosion.

Under normal conditions of use, the electrode materials and liquid electrolyte they contain are not exposed to the outside, provided the battery integrity is maintained and seals remain intact. Risk of exposure only in case of abuse (mechanical, thermal, electrical) which leads to the activation of safety valves and/or the rupture of the battery containers. Electrolyte leakage, electrode materials reaction with moisture/water or battery vent/explosion/fire may follow, depending upon the circumstances.

4. FIRST-AID MEASURES

Eyes: Irrigate thoroughly with water for at least 15 minutes. Obtain medical

attention.

Skin: Wash off skin thoroughly with water. Remove contaminated clothing

and wash before reuse. In severe cases obtain medical attention.

Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain

medical attention.

Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink.

Obtain medical attention.

Further treatment: All cases of eye contamination, persistent skin irritation and casualties

who have swallowed this substance or been affected by breathing its

vapours should be seen by a Doctor.

5. FIRE-FIGHTING MEASURES

Hazardous Combustion When burned, hazardous products of combustion including fume of

Products: carbon monoxide and carbon dioxide can occur.

Extinguishing Media: Water, carbon dioxide, dry chemical or foam.

Wear NIOSH/MSHA approved positive pressure self-contained

breathing apparatus and protective clothing to prevent contact with skin

and eyes.

6. ACCIDENTAL RELEASE MEASURES

Accidental: If the battery breakage and electrolyte leakage, evacuate personnel

until the smoke cleared.

Wipe with a cloth and placed in steel drums into the bag inside.

If the battery is hot, away from the scene firstly, cool the battery, so that

Report No.: RSZBHST211213891-2 Date of Issue: Dec.25 2021

Carbon Dry Battery



the steam dissipated. Adequate ventilation.

Avoid skin or eye contact steam.

Waste treatment: The battery Should discharge completely, the waste batteries will be

turned over in the relevant sector, and all waste must refer to the United Nations, national, local regulations for disposal. Reference to national

or federal Environmental Protection Agency EPA.

7. HANDLING AND STORAGE

Prohibit mechanical or electrical damage battery.

Stored in a dry, cool and ventilated environment, to avoid temperature changes or high temperature.

Keep away from heat, avoid prolonged sun exposure.

Against short circuit, overcharge, forced discharge, or in a fire.

Battery disassembly, crush, fire or high temperatures can cause fire or explosion, prohibit short-circuit or error operation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: If the battery leaks, the need for full ventilation.

Hand Protection: Under normal use, do not.Personal Protection: Under normal use, do not.Other protection: Under normal use, do not.

If the battery leaks, must wear the following protection products.

Respiratory protection	In all fire situations, use self-contained breathing apparatus.
Hand protection	In the event of leakage wear gloves.

Report No.: RSZBHST211213891-2 Date of Issue: Dec.25 2021

Carbon Dry Battery



Eye protection	Safety glasses are recommended during handling.
Other	In the event of leakage, wear chemical apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Nominal Voltage: 1.5V Weight 7.16g

Appearance characters: Blue and silver Size: \$\Phi 10mm*44mm\$

10. STABILITY AND REACTIVITY

Product is stable under conditions described in Section 7.

Hazardous reactions may occur under some specific conditions.

Conditions to avoid: When a battery cell is exposed to an external short-circuit, crushes,

modification, high temperature above 100 degree C, it will be the cause of heat generation and ignition. Avoid to be exposed to direct sunlight

and high humidity.

Conductive materials, water, seawater, strong oxidizers and strong

acids.

Hazardous

Materials to avoid:

decomposition Acrid or harmful gas is emitted during fire.

products:

11. TOXICOLOGICAL INFORMATION

Primary irritant effect: None, unless battery ruptures. In the event of exposure to internal

contents, corrosive fumes will be very irritating to skin, eyes and mucous membranes. Overexposure can cause symptoms of

non-fibrotic lung injury and membrane irritation.

Inhalation: Lung irritant.

Skin contact: Skin irritant

Eye contact: Eye irritant.

Report No.: RSZBHST211213891-2 Date of Issue: Dec.25 2021

Carbon Dry Battery



Ingestion: Tissue damage to throat and gastro-respiratory tract if swallowed.

Medical conditions

generally aggravated by In the event of exposure to internal contents, eczema, skin allergies,

exposure: lung injuries, asthma and other respiratory disorders may occur.

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.

13. DISPOSAL CONSIDERATIONS

Do not incinerate, or subject cells to temperatures in excess of 100 ℃. Such abuse can result in loss of seal, leakage, and/or cell explosion.

Waste disposal must be in accordance with the applicable regulations. Disposal of the lithium ion battery cells should be performed by permitted, professional disposal page: firms knowledgeable in state or local requirements of hazardous waste treatment and hazardous waste transportation. Incineration should never be performed by battery but users, eventually by trained professional in authorized facility with proper gas and fume treatment.

Deserted batteries could not be treated as ordinary trash. could not be thrown into fire or placed in high temperature. could not be dissected, pierced ,crushed or treated similarly. Best way is recycling

14. TRANSPORT INFORMATION

The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. The equipment installed with the Cell and battery must be fixed in the outer package to avoid movement and to prevent accidental start during transportation; When multiple devices are packed in one package, the device must be protected from contact with other devices after packaging to avoid damage Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle and ship must be cleaned and

Report No.: RSZBHST211213891-2 Date of Issue: Dec.25 2021

Carbon Dry Battery



sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport.

Transport feebiens

Transport fashion: By air, by sea, by railway, by road.

15. REGULATORY INFORMATION

《Dangerous Goods Regulation》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous goods》

OSHA Hazard Communication Standard Status

Toxic Substances Control Act (TSCA) Status

SARA Title III

RCRA

In accordance with all Federal, State and Local laws

16. OTHER INFORMATION

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its

Report No.: RSZBHST211213891-2 Date of Issue: Dec.25 2021



BUAA

Carbon Dry Battery

use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.