

MSDS REPORT

Sample Name: Nickel-Metal Hydride battery

Model No. : Button:20mAh/30mAh/40mAh/50mAh/60mAh/70mAh/80mAh/100mAh, AA80mAh, AA100mAh, AA150mAh, AA200mAh, AA250mAh, AA300mAh, AA350mAh, AA400mAh, AA450mAh, AA500mAh, AA600mAh, AA650mAh, AA700mAh, AA800mAh, AA850mAh, AA900mAh, AA1000mAh, AA1100mAh, AA1200mAh, AA1300mAh, AA1400mAh, AA1500mAh, AA1600mAh, AA1700mAh, AA1800mAh, AA1900mAh, AA2000mAh, AA2100mAh, AA2200mAh, AA2300mAh, AA2400mAh, AA2500mAh, AA2600mAh etc; AAA80mAh, AAA100mAh, AAA150mAh, AAA200mAh, AAA250mAh, AAA300mAh, AAA350mAh, AAA400mAh, AAA450mAh, AAA500mAh, AAA600mAh, AAA700mAh, AAA750mAh, AAA800mAh etc; 1/3AAA50mAh, 1/3AAA80mAh, 1/3AAA100mAh, 1/3AAA120mAh, 1/3AAA150mAh, 1/3AAA180mAh, 1/4AAA60mAh, 1/4AAA80mAh, 1/4AAA85mAh etc; 2/3AAA80mAh, 2/3AAA100mAh, 2/3AAA120mAh, 2/3AAA150mAh, 2/3AAA180mAh, 2/3AAA200mAh, 2/3AAA250mAh, 2/3AAA300mAh, 2/3AAA350mAh, 2/3AAA400mAh etc; 2/3AA80mAh, 2/3AA100mAh, 2/3AA120mAh, 2/3AA150mAh, 2/3AA180mAh, 2/3AA200mAh, 2/3AA250mAh, 2/3AA300mAh, 2/3AA350mAh, 2/3AA400mAh, 2/3AA450mAh, 2/3AA500mAh, 2/3AA600mAh, 2/3AA700mAh etc; 1/3AA50mAh, 1/3AA60mAh, 1/3AA80mAh, 1/3AA100mAh, 1/3AA120mAh, 1/3AA150mAh, 1/3AA180mAh, 1/3AA200mAh, 1/3AA250mAh, 1/3AA300mAh, 1/3AA350mAh etc; C1500mAh, C1800mAh, C2000mAh, C2500mAh, C3000mAh, C3500mAh, C4000mAh, C5000mAh etc; D2500mAh, D3000mAh, D3500mAh, D4000mAh, D5000mAh, D5500mAh, D6000mAh, D6500mAh, D7000mAh, D7500mAh, D8000mAh etc; A800mAh, A1000mAh, A1500mAh, A2000mAh, A2500mAh, A3000mAh etc; SC1000mAh, SC1500mAh, SC1800mAh, SC2000mAh, SC2500mAh, SC3000mAh etc; (1.2V 2.4V 3.6V 4.8V 6.0V 7.2V 8.4V 9.6V 10.8V 12V) etc

Sample Model: AA600mAh

Sample Received Date: Jan. 05, 2021

Completion Date: Jan. 07, 2021

Client Unit: Removed by K.I.

Client Address: Removed by K.I.

Client No. : Removed

Manufacturer: Removed by K.I.

Manufacturer Address: Removed by K.I.

Signed for Beide (Shenzhen) Product Service Limited

Written by: Chen Qin
Chen Qin / Engineer

Inspected by: Austin Zhong
Austin Zhong / Engineer

Approved by: Martin Wang
Martin Wang / Manager

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1. Identification of substance/preparation and company/undertaking

Identification of substance or preparation

Product name: Nickel-Metal Hydride battery

Company/undertaking identification

Manufacturer: Removed by K.I.

Product type: AA600mAh

2. Composition/information on ingredients

Substance/preparation: Preparation

Ingredient name	Molecular Formula	CAS Number	Weight(%)	Classification
iron	Fe	7439-89-6	33.80%	Not classified
Polyamide Resin	/	63428-84-2	0.98%	Not classified
Cobalt oxide	CoO	1307-96-6	0.90%	Not classified
Nickel(II) hydroxide	Ni(OH) ₂	12054-48-7	20%	Not classified
Metal Hydroxide Alloy	La _x Ni _{1-x} (A=Al,Mn,Co)	/	19.90%	Not classified
1-Propene, homopolymer;	(C ₃ H ₆) _n	9003-07-0	4.47%	Not classified
polyvinyl chloride	(CH ₂ -CHCl) _n	9002-86-2	2.44%	Not classified
Potassium Hydroxide	KOH	1310-58-3	4.55%	Not classified
Sodium Hydroxide	NaOH	1310-73-2	1.04%	Not classified
Lithium hydroxide	LiOH	1310-65-2	0.21%	Not classified
Dihydrogen oxide	H ₂ O	7732-18-5	11.71%	Not classified

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3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified

Potential Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucous membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation.

4. First-aid measures

Inhalation	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion	: If swallowed, call a physician immediately
Skin contact	: Flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.
Eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

5. Fire-fighting measures

Extinguishing media : Water, CO₂, dry chemical.

Special exposure hazards : No specific hazard.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective : Fire-fighters should wear appropriate protective equipment and self-contained

Equipment for fire-fighters : Breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazardous Combustion Products: Emits toxic fumes under fire conditions

Note: Few gas (H₂) may be generated during the battery storing, but won't arise burning or explosion

Warning: Never recharge / short – circuit / disassemble. Never dispose in fire or expose close to a heat generating area. Never expose battery to strong impact because there is a danger of combustion or explosion.

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6. Accidental release measures

Personal precautions	: Utilize recommended protective clothing and equipment.
Environmental precautions	: Collect wash water for approved disposal. Keep from entering water or ground water.
Spillage	: Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water

7. Handling and storage

The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.
Do not short circuit terminals, or charge the battery, forced overdischarge, throw to fire. Do not crush or puncture the battery, or immerse in liquids. Precautions to be taken in handling and storing.
Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.
Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.
Other Precautions
Do not short or install with incorrect polarity.

8. Exposure controls/personal protection

Eye Protection: Wear chemical goggles.
Respiratory Protection: Always use respirator
Skin Protection: gloves, coveralls, avoid cotton product.
Ventilation: Good general or local exhaust ventilation are required for usage

9. Physical and chemical properties

General information

Appearance

Nominal Voltage: AAA600mAh 1.2V

Appearance characters: Light-green, odorless, column form, solid battery.

10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use hazardous Polymerization will not occur.
Conditions to avoid	: Heating, fire, mechanical abuse and electrical abuse.
Hazardous decomposition	: When exposed to fire or extreme heat, batteries may emit toxic fumes.

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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 very irritating to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

12. Ecological information

Environmental effects : The correct use and disposal of batteries will not cause harm to the environment. The disposal of waste battery, away from water, rain and snow.

13. Disposal considerations

Product disposal : Dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental agency.

14. Transport information

They are considered dangerous goods by the international Civil Aviation Organization (ICAO) and the International Air Transport Association (IATA). These batteries complied with the SPECIAL PROVISIONS A 199 of the current IATA-DGR. The products are not subject to dangerous goods. More information concerning shipping, testing, marking and packing can be obtained from label master. Separate batteries when shipping to prevent short circuiting.

They should be packed in strong packaging for support during transport.

Regulatory body	Special provisions
ADR	295-304.598
IMO	UN 3496 SP117 and SP963
UN	UN 3496
US DOT	49 CFP 172.102 Provisions 130
IATA	A199
ICAO	UN 3496

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15. Regulatory information

Law 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 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.

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Photo of sample



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