



MSDS Report

Report No. : CTL1701096601-MSDS

Samples : Ni-MH Battery

Models : AA1500mAh1.2V, AAAAA, AAAA, AAA, AA, A, SC, D, 9V, F and PRISMATIC
NICKEL-METAL HYDRIDE

Applicant : SHENZHEN DELIPOW BATTERY CO.,LTD

Address : Delipow Building 6, Blk.3,Fu'an Industrial City, Zone2, Dayang Road Fuyong
Town. Shenzhen. Guangdong 518103 P.R. China

Manufacturer : SHENZHEN DELIPOW BATTERY CO., LTD

Address : Delipow Building 6, Blk. 3, Fu'an Industrial City, Zone2, Dayang Road Fuyong
Town. Shenzhen. Guangdong 518103 P.R. China

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Section 1- Chemical Product and Company Identification

Product Name : Ni-MH Battery
Models : AA1500mAh1.2V, AAAAA, AAAA, AAA, AA, A, SC, D, 9V, F and PRISMATIC NICKEL-METAL HYDRIDE
Manufacturer : SHENZHEN DELIPOW BATTERY CO., LTD
Address : Delipow Building 6, Blk. 3, Fu'an Industrial City, Zone2, Dayang Road Fuyong Town. Shenzhen. Guangdong 518103 P.R. China
TEL : 139 2281 9780
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Section 2-Composition/ Information on Ingredients

Chemical Composition	CAS No.	Weight(%)
Nickel	7440-02-0	4.9%
Nickel hydroxide	12054-48-7	23.9%
Cobalt Monoxide	1307-96-6	2.7%
Mischmetal Powder	7440-02-0 7440-48-4	38.2%
Potassium Hydroxide	1310-58-3	3.2%
Steel	12597-69-2	16.9%
Nylon	32131-17-2	2.2%
PP fiber Separator	(C ₂ H ₂) _n	8%

Section 3- Hazards Identification

No specific health hazards for normal use.

Health Hazards (Acute and Chronic)

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided.

Sign/Symptoms of Exposure

A shorted lithium battery can cause thermal and chemical burns upon contact with the skin.

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Section 4- First Aid Measures

Eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation

Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion

Do not induce vomiting. Call a physician immediately.

Section 5- Fire-Fighting Measures

Flash Point: N/A.

Auto-Ignition Temperature: N/A.

Extinguishing Media

CO₂ , dry chemical.

Special Fire-Fighting Procedures

Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Cell may vent when subjected to excessive heat-exposing battery contents.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, other metallic oxide fumes.

Section 6- Accidental Release Measures

Steps to be Taken in case Material is Released or Spilled

If the battery is accidental broken and leaks out, wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the batteries to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled material with absorbent.

Waste Disposal Method

It is recommended to discharge the battery to the end, recycle copper and other metal, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

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Section 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 over-discharge, 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.

Section 8- Exposure Controls/ Personal Protection

Respiratory Protection

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting batteries. Respiratory Protection is not necessary under conditions of normal use.

Other Protective Clothing or Equipment

Not necessary under conditions of normal use. Personal Protection is recommended for venting batteries: Respiratory Protection, Protective Gloves, Protective Clothing and Safety Glass with side shields.

Section 9- Physical and Chemical Properties

Appearance characters: Silver with odorless

Chemical Uses: Power supply for electronic products.

Voltage: 1.2V

Capacity: AA 1500mAh

Section 10- Stability and Reactivity

Stability:

Product is stable under normal storage and handling conditions.

Conditions to avoid:

High temperatures or incinerate. Deform, mutilate, crush, Pierce, short circuit. expose over a long period to humid conditions

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Materials to avoid:

Oxidizing agents, alkalis, water.

Hazardous reactions:

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

Section 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.

Section 12- Ecological Information

When promptly used or disposed the battery dose not present environmental hazard.

When disposed, keep away from water, rain an snow.

Section 13- Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

If batteries are still fully charged or only partially discharged, they can be considered a reactive hazardous waste because of significant amount of not reaction or unconsumed lithium remaining in the spent battery. 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.

Section 14- Transport Information

NI-MH BATTERY is exempt from dangerous goods. It is considered non-dangerous goods by the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) DGR 58th, IATA Special Provisions A199, 《Recommendations on the Transport of Dangerous Goods Model Regulations》 (19th).

S.P.A123 This entry applies to Batteries, electric storage, not otherwise listed in Subsection 4.2–List of Dangerous Goods. Examples of such batteries are: alkali-manganese, zinc-carbon, nickel-metal hydride and nickel-cadmium batteries. Any electrical battery or battery powered device, equipment or vehicle having the potential of 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

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disconnection of the battery and protection of exposed terminals) is forbidden from transport; 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. Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

Note: Products weighing less than 100kg in the Container. (By sea).

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

Section 15- Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

Hazardous Non-hazardous

Section 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.

*****END OF REPORT*****