

MSDS REPORT

Sample Name : Ni-MH Battery
Model No. : See Attachment A
Sample Model : AA600mAh
Sample Received Date : 2023-12-25
Completion Date : 2024-01-02
Client Unit : HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.
Client Address : Industrial Cluster District of Yudong, Xinxiang City, Henan Province
Client ID : CB2525
Manufacturer : HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.
Manufacturer Address : Industrial Cluster District of Yudong, Xinxiang City, Henan Province



Report Query

Signed for Beide (Shenzhen) Product Service Limited

Written by: Sebera Li
(Sebera Li)

Inspected by: Austin Zhong
(Austin Zhong)



Approved by: Martin Wang
(Martin Wang)

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1. Identification of substance/preparation and company/undertaking

Identification of substance or preparation

Product name: Ni-MH Battery

Company/undertaking identification

Manufacturer: HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.

2. Composition/information on ingredients

Substance/preparation:

Ingredient name	CAS Number	EC#	Weight(%)
Iron	7439-89-6	231-096-4	35.89~50.5
Nickel atom	7440-02-0	231-111-4	22.2~26.32
Nickel Hydroxide	12054-48-7	--	7.8~13.1
Lanthanum, compound with nickel (1:5)	12196-72-4	235-372-5	4.96~9.8
polypropylene	9003-07-0	--	5.3~6.61
polyvinyl chloride	9002-86-2	208-750-2	4.3~5.5
water	7732-18-5	231-791-2	0.56~4.4
Potassium hydroxide	1310-58-3	215-181-3	0.21~2.2
Cobalt oxide	1307-96-6	215-154-6	0.04~0.44
Lithium hydroxide monohydrate	1310-66-3	215-183-4	0.01~0.04
Sodium hydroxide	1310-73-2	215-185-5	0.56~4.4

3. Hazards identification

Classification : Not classified

Potential Health Effects : Contact with combustion products may irritate skin and eyes. 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. No specific health hazards for normal use.

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.

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5. Fire-fighting measures

Flammable

Suitable extinguishing media : Use a fire extinguisher suitable for local conditions and surroundings. Such as foam, carbon dioxide and chemical dry powder fire extinguishers.

Special hazards of product : The high temperature heating process will generate harmful gases.

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

Protective equipment for firefighting: Firefighters wear gas masks, helmets, fire fighting clothing and gloves.

Warning : Never 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.

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, 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 : Unnecessary.

Respiratory Protection : Unnecessary.

Skin Protection : Unnecessary.

Ventilation : Unnecessary.

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9. Physical and chemical properties

General information

Appearance

Physical state : None
Odor : None
Colour : None
Flash point : None
Melting point : None
Absorption wavelength : None
Prohibited content : None

10. Stability and reactivity

Chemical stability : The product is stable. Under normal conditions of storage and use hazardous Polymerization will not occur.
Possibility of hazardous reactions : No dangerous reactions known.
Conditions to avoid : Heating, fire, mechanical abuse and electrical abuse.
Incompatible materials : No information.
Hazardous decomposition products : No dangerous decomposition products known.

11. Toxicological information

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.

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14. Transport information

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

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. Ni-MH Battery is not subject to IMO IMDG Code according to the Special Provisions 963 When packaged for transport, the cells or batteries shall be protected from short circuit.

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Attachment A

AA50mAh, AA80mAh, AA100mAh, AA150mAh, AA200mAh, AA250mAh, AA300mAh, AA330mAh, AA350mAh, AA400mAh, AA450mAh, AA500mAh, AA550mAh, AA600mAh, AA650mAh, AA700mAh, AA750mAh, AA800mAh, AA850mAh, AA900mAh, AA950mAh, AA1000mAh, AA1100mAh, AA1200mAh, AA1300mAh, AA1400mAh, AA1500mAh, AA1600mAh, AA1700mAh, AA1800mAh, AA1900mAh, AA2000mAh, AA2100mAh, AA2200mAh, AA2300mAh, AA2400mAh, AA2500mAh, AA2600mAh, AA2700mAh, AA2800mAh, AA2900mAh, AA3000mAh

AAA80mAh, AAA100mAh, AAA150mAh, AAA200mAh, AAA250mAh, AAA300mAh, AAA330mAh, AAA350mAh, AAA400mAh, AAA450mAh, AAA500mAh, AAA550mAh, AAA600mAh, AAA650mAh, AAA700mAh, AAA750mAh, AAA800mAh, AAA900mAh, AAA1000mAh, AAA1100mAh, AAA1200mAh, AAA1300mAh, AAA1400mAh, AAA1500mAh

1/4AAA50mAh, 1/4AAA60mAh, 1/4AAA80mAh

1/3AAA50mAh, 1/3AAA60mAh, 1/3AAA70mAh, 1/3AAA80mAh, 1/3AAA85mAh, 1/3AAA90mAh, 1/3AAA100mAh, 1/3AAA110mAh, 1/3AAA120mAh, 1/3AAA150mAh, 1/3AAA180mAh

2/3AAA80mAh, 2/3AAA100mAh, 2/3AAA130mAh, 2/3AAA120mAh, 2/3AAA150mAh, 2/3AAA180mAh, 2/3AAA200mAh, 2/3AAA250mAh, 2/3AAA300mAh, 2/3AAA350mAh, 2/3AAA400mAh

2/3AA80mAh, 2/3AA100mAh, 2/3AA120mAh, 2/3AA150mAh, 2/3AA180mAh, 2/3AA200mAh, 2/3AA250mAh, 2/3AA300mAh, 2/3AA350mAh, 2/3AA400mAh, 2/3AA450mAh, 2/3AA500mAh, 2/3AA150mAh, 2/3AA600mAh, 2/3AA700mAh, 2/3AA800mAh, 2/3AA900mAh, 2/3AA1000mAh

1/3AA50mAh, 1/3AA60mAh, 1/3AA80mAh, 1/3AA100mAh, 1/3AA120mAh, 1/3AA150mAh, 1/3AA180mAh, 1/3AA200mAh, 1/3AA250mAh, 1/3AA300mAh, 1/3AA350mAh

Ni-MH Button Rechargeable Battery:

10mAh/20mAh/30mAh/40mAh/50mAh/60mAh/70mAh/80mAh/100mAh/110mAh/120mAh/160mAh/230mAh/250mAh/280mAh/300mAh/330mAh/350mAh/400mAh/500mAh/600mAh/650mAh/700mAh/800mAh/900mAh/1000mAh (1.2V 2.4V 3.6V 4.8V 6.0V 7.2V 8.4V 9.6V 10.8V 12V 13.2V 14.4V 15.6V)

End of Report

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