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Report No.: MQICGFVG0080167U3

MSDS Report

Sample Name
& Model

NI-MH RECHARGEABLE BATTERY AA

Applicant

Address



No.:
MQICGFVG0080167U3
Code: fkW8nQd2



北京实验室: (010) 83055000	武汉实验室: (027) 85446975	新疆实验室: (0991) 6684186	太原实验室: (0351) 7555722
北京医学实验室: (010) 62450233/8010	武汉车附所: (027) 82318175	石家庄实验室: (0311) 85376660	合肥实验室: (0551) 63843474
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上海实验室: (021) 64851999	吉林医学实验室: (0431) 80529700	杭州实验室: (0571) 87219096	厦门实验室: (0592) 5568048
上海医学实验室: (021) 37895599	长春实验室: (0431) 80530198	杭州医学实验室: (0571) 87219096	内蒙古医学实验室: (0471) 3450025
上海松江实验室: (021) 37895599	大连实验室: (0411) 87336618	宁波实验室: (0574) 87977185	呼和浩特实验室: (0471) 3450025
青岛实验室: (0532) 88706866	大连医学实验室: (0411) 87336618	天津实验室: (022) 23607888	贵州实验室: (0851) 85221000
青岛医学实验室: (0532) 88706866	哈尔滨实验室: (0451) 58627755	天津医学实验室: (022) 23607888	郑州实验室: (0371) 69350670
深圳实验室: (0755) 26050909	黑龙江医学实验室: (0451) 58603455	成都实验室: (028) 87702708	郑州协力润华医学实验室: (0371) 63279066
深圳医学实验室: (0755) 26050909	苏州医学实验室: (0512) 62997900	南宁实验室: (0771) 5518818	

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WWW.PONYTEST.COM



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北京实验室:(010)83055000
北京医学实验室:(010)62450233转8010
北京谱尼科技公司:(010)80415661
上海实验室:(021)64851999
上海医学实验室:(021)37895599
上海松江实验室:(021)37895599
青岛实验室:(0532)88706866
青岛医学实验室:(0532)88706866
深圳实验室:(0755)26050909
深圳医学实验室:(0755)26050909

武汉实验室:(027)85446975
武汉车附所:(027)82318175
武汉医学实验室:(027)85446975
吉林医学实验室:(0431)80529700
长春实验室:(0431)80530198
大连实验室:(0411)87336618
大连医学实验室:(0411)87336618
哈尔滨实验室:(0451)58627755
黑龙江医学实验室:(0451)58603455
苏州医学实验室:(0512)62997900

新疆实验室:(0991)6684186
石家庄实验室:(0311)85376660
西安实验室:(029)89608785
杭州实验室:(0571)87219096
杭州医学实验室:(0571)87219096
宁波实验室:(0574)87977185
天津实验室:(022)23607888
天津医学实验室:(022)23607888
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南宁实验室:(0771)5518818

太原实验室:(0351)7555722
合肥实验室:(0551)63843474
广州实验室:(020)89224310
厦门实验室:(0592)5568048
内蒙古医学实验室:(0471)3450025
呼和浩特实验室:(0471)3450025
贵州实验室:(0851)85221000
郑州实验室:(0371)69350670
郑州协力润华医学实验室:
(0371)63279066



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Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.9 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical Product Identification

Sample Name: NI-MH RECHARGEABLE BATTERY

Sample Model: AA

Recommended Uses: N/A

Restrictions on Use: N/A

Supplier Name:

Address: Phone Number:

FAX: /

E-mail:

Emergency Phone Number:

Section 2 - Hazards Identification

Emergency overview: This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

Classification according to GHS

Acute toxicity, oral (4)

Acute toxicity, inhalation: Dusts and mists (4)

Skin corrosion/irritation (1A, 1B, 1C)

Sensitisation, respiratory (1, 1A, 1B)

Sensitisation, skin (1, 1A, 1B)

Carcinogenicity (2)

Specific target organ toxicity, single exposure; Respiratory tract irritation (3)

Specific target organ toxicity, repeated exposure (2)

Hazardous to the aquatic environment, long-term hazard (1)

Label elements

Hazard pictogram(s):



Signal word:

Danger



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Hazard statement(s):

H302 Harmful if swallowed

H332 Harmful if inhaled

H314 Causes severe skin burns and eye damage

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H335 May cause respiratory irritation

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dusts or mists.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response:

P330 Rinse mouth.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P363 Wash contaminated clothing before reuse.

P321 Specific treatment(See additional emergency instructions).

P391 Collect spillage.

Storage

P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

Other hazards

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Nickel Hydroxide	12054-48-7	235-008-5	30-40
Nickel	7440-02-0	231-111-4	10-15
Nickel alloy, base, Ni,Al,Co,Cr,Mo,Ti (IN 731)	12604-68-1	603-119-1	30-40
Potassium hydroxide	1310-58-3	215-181-3	3-5
Cobalt hydroxide	21041-93-0	244-166-4	20-30

Section 4 - First Aid Measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Personal protective equipment for first-aid responders: No data available.

Most important symptoms/effects, acute and delayed: No data available.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.



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Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

Unsuitable extinguishing media:

No data available.

Specific Hazards arising from the chemical:

Special hazards arising from the substance or mixture

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Some may burn but none ignite readily. Containers may explode when heated. Some may be transported hot.

Specific protective actions for fire-fighters:

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6 - Accidental Release Measures

Personal precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Protective equipment:

No data available.

Emergency procedures:

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust.

Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and materials for containment and cleaning up:

For all waste handling must refer to United Nations, National and Local Regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Precautions for safe handling:

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or



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disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

Section 8 - Exposure Controls/Personal Protection

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
12054-48-7	N/A	N/A	N/A
7440-02-0	TLV-TWA 1.5mg/m ³	REL-TWA 0.015mg/m ³	PEL-TWA 1mg/m ³
12604-68-1	N/A	N/A	N/A
1310-58-3	TLV-Peak 2mg/m ³	REL-Peak 2mg/m ³	N/A
21041-93-0	N/A	N/A	N/A

Appropriate engineering controls:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Personal Protective Equipment:

Respiratory protection: Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

Hand Protection: Wear appropriate protective gloves to reduce skin contact.

Eye Protection: Wear safety goggles or eye protection combined with respiratory protection.

Skin and Body Protection: Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Colour:

Green.



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Physical State:	Cylindrical.
Odour:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Flammability:	Not available.
Solubility:	Not available.
Lower and upper explosion limit/flammability limit:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Kinematic viscosity:	Not available.
Partition coefficient: n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	Not available.
Relative vapour density:	Not available.
Particle characteristics:	Not available.
Other information:	
Voltage	1.2V

Section 10 - Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable.

Possibility of hazardous reactions: No data available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatible materials: Oxidizing agents, acid base.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

Section 11 - Toxicological Information

Acute Toxicity:

CAS No.	LC50/LD50
12054-48-7	LD50 Rat (oral): 1600mg/kg LC50 Rat (Inhalation: Dusts and mists): 1200mg/m ³
7440-02-0	LD50 Rat (oral): >9000mg/kg

PONY 谱尼测试
Pony Testing International Group

☎Hotline 400-819-5688

www.ponytest.com

Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F of Building 2, Building 1, Xinhao Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Phone: 0755-26050909

北京实验室: (010)83055000 哈尔滨实验室: (0451)58627755 内蒙古医学实验室: (0471)3591511 武汉实验室: (027)83997127
北京医学实验室: (010)62450233-8010 黑龙江医学实验室: (0451)58603455 太原实验室: (0351)7555722 武汉医学实验室: (027)85446975
北京谱尼科技公司: (010)80415661 郑州实验室: (0371)69350670 成都实验室: (028)87702708 杭州实验室: (0571)87219096
青岛实验室: (0532)88706866 郑州谱尼医学实验室: (0371)63279066 贵州实验室: (0851)85221000 杭州医学实验室: (0571)87219096
青岛医学实验室: (0532)88706866 新疆实验室: (0991)6684186 上海实验室: (021)64851999 宁波实验室: (0574)87977185
天津实验室: (022)23607888 石家庄实验室: (0311)85376660 上海医学实验室: (021)64851999 合肥实验室: (0551)63843474
天津医学实验室: (022)23607888 西安实验室: (029)89608785 苏州实验室: (0512)62997900 深圳实验室: (0755)26050909
长春实验室: (0431)80530198 西安创尼实验室: (029)81123093 苏州汽车安全带及儿童安全座椅 碰撞实验室: (0512)62997900 深圳医学实验室: (0755)26050909
吉林医学实验室: (0431)80529700 西安布勒威克实验室: (029)62886819 碰撞实验室: (0512)62997900 广州实验室: (020)89224310
大连实验室: (0411)87336618 西安医学实验室: (029)89608785 苏州医学实验室: (0512)62997900 南宁实验室: (0771)5518818
大连医学实验室: (0411)87336618 呼和浩特实验室: (0471)3450025 武汉车附所: (027)82318175 厦门实验室: (0592)5568048



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12604-68-1	No data available.
1310-58-3	LD50 Rat (oral): 284mg/kg
21041-93-0	No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or Skin sensitization: No data available.

Germ Cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure: No data available.

Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: No data available.

Eye: No data available.

Skin: No data available.

Ingestion: No data available.

Inhalation: No data available.

Section 12 - Ecological Information

Ecological Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.

Section 13 - Disposal Considerations

Disposal methods:

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.



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Section 14 - Transport Information

UN or ID Number	
IATA, IMDG	N/A
Proper Shipping Name/Description	
IATA, IMDG	N/A
Class or Div. (Sub Hazard)	
IATA, IMDG	Not Subjected for transport of dangerous goods
Packing Group	
IATA, IMDG	N/A
Hazard Label	
IATA, IMDG	N/A
Environmental hazards	
Marine pollutant:	No
Special precautions for user	No information available.

Transport information: NI-MH RECHARGEABLE BATTERY AA 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 63rd, IATA Special Provisions A199, International Maritime Dangerous Goods Regulations (IMDG) (40-20), IMDG Special Provisions 963, or the 《Recommendations on the Transport of Dangerous Goods Model Regulations》 (22nd).

S.P.A199 The UN number UN 3496 is only applicable in sea transport. Nickel-metal hydride battery or nickel-metal hydride battery-powered devices, equipment or vehicles having the potential of a dangerous evolution of heat are not subject to these Regulations provided they are 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) unintentional 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.

Note: Nickel-metal hydride cells or batteries packed with or contained in equipment and nickel-metal hydride button cells. (By sea).

Transport Fashion: By air, by sea.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDL	EINECS/ ELINCS/ NLP
12054-48-7	Listed	Listed	Listed DSL	Listed
7440-02-0	Listed	Listed	Listed DSL	Listed
12604-68-1	Listed	Listed	Listed DSL	Listed
1310-58-3	Listed	Listed	Listed DSL	Listed
21041-93-0	Listed	Listed	Listed DSL	Listed

Section 16 - Other Information

Issue Date: 2022-01-14

Issue Department: Technical department

Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);



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PC-STEL: (Permissible concentration-short time exposure limit);
 PC-TWA: (Permissible concentration-time weighted average);
 IARC: (International Agency for Research on Cancer);
 LC50: (Lethal concentration, 50 percent kill);
 LD50: (Lethal dose, 50 percent kill);
 EC50: (Median effective concentration);
 BCF: (Bioconcentration Factor);
 BOD: (Biochemical oxygen demand);
 IECSC: (Inventory of Existing Chemical Substances in China);
 NOEC: (No observed effect concentration);
 NTP: (US National Toxicology Program);
 RTECS: (Registry of Toxic Effects of Chemical Substances);
 TOC: (Total Organic Carbon);
 TSCA: (Toxic Substances Control Act of USA);
 DSL: (the Domestic Substances List of Canada);
 NDSL: (the Non-domestic Substances List of Canada)
 IATA: (International Air Transport Association);
 IMDG: (International Maritime Dangerous Goods);
 TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

End of report