



Report No.: MPISYGTL922207U3



MSDS Report

Sample Name	Ni Mb battary NI MH AAA
& Model	Ni-Mh battery NI-MH AAA
Applicant	
Address	



No.: MPISYGTL922207U3 Code: R949d7E26



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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 battery Sample Model: NI-MH AAAA 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.



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Section 3 - Composition/Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Nickel Hydroxide	12054-48-7	235-008-5	20
Lanthanum, compound with nickel	12196-72-4	235-372-5	8
Iron oxide	1345-25-1	215-721-8	16.7
Water	7732-18-5	231-791-2	18.3
Potassium hydroxide	1310-58-3	215-181-3	31.6
Sodium hydroxide	1310-73-2	215-185-5	2.8
Graphite	7782-42-5	231-955-3	2.6

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.

Section 5 - Fire Fighting Measures



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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 handing 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 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.



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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
12196-72-4	N/A	N/A	N/A
1345-25-1	N/A	N/A	N/A
7732-18-5	N/A	N/A	N/A
1310-58-3	TLV-Peak 2mg/m3	REL-Peak 2mg/m3	N/A
1310-73-2	N/A	N/A	PEL-TWA 2mg/m3
7782-42-5	TLV-TWA 2mg/m ³	REL-TWA 2.5mg/m ³	PEL-TWA 15mppcf PEL-TWA 20mppcf

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:

silver and green.



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Prismatic. Physical State:

Not available. Odour: Not available. pH:

Not available. Melting point/freezing point:

Not available. Boiling point or initial boiling point and boiling range:

Flash Point: Not available.

Not available. Flammability:

Solubility: Not available.

Lower and upper explosion limit/flammability limit: Not available.

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: Relative vapour density: Not available.

Particle characteristics: Not available.

Other information:

1.2V Voltage

2500mAh Electric capacity

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/m3



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12196-72-4	No data available.		
1345-25-1	No data available.		
7732-18-5	No data available.		
1310-58-3	LD50 Rat (oral): 284mg/kg		
1310-73-2	No data available.		
7782-42-5	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: CAS# 1310-73-2

LC50: 40mg/L - Crustacea (Cenodaphnia quadrangular) - 48h

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.



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Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

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 battery NI-MH AAA 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 Martine Dangerous Goods Regulations (IMDG) (40-20), IMDG Special Provisions 963.

S.P.A199 The UN number UN 3496 is only applicable in sea transport. Nickel-metal hydride batterise 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.

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.









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Note: A total quantity less than 100kg gross mass in a cargo transport unit. (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/NDSL	EINECS/ ELINCS/ NLP
12054-48-7	Listed	Listed	Listed DSL	Listed
12196-72-4	Listed	Listed	Listed DSL	Listed
1345-25-1	Listed	Listed	Listed DSL	Listed
7732-18-5	Listed	Listed	Listed DSL	Listed
1310-58-3	Listed	Listed	Listed DSL	Listed
1310-73-2	Listed	Listed	Listed DSL	Listed
7782-42-5	Listed	Listed	Listed DSL	Listed

Section 16 - Other Information

Issue Date: 2022-01-04

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);









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Pony Testing International Group

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);

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



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报告编号(Report ID): MPISYGTL922217U1





中国认可 检验 INSPECTION CNAS IB0279

货物运输条件鉴定书

Certification for Safe Transport of Goods

非限制性货物

Non-restricted Goods

样品名称及型号

(Sample Name & Model)

委托单位

(Applicant)

生产单位

(Manufacturer)

镍氢电池 9V

NI-MH Battery 9V

深圳天诚巨能科技有限公司

Shenzhen Tcbest Battery Industry Co., Ltd.

深圳天诚巨能科技有限公司

Shenzhen Tcbest Battery Industry Co.,Ltd.





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Report ID: MPISYGTL922217U1

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货物运输条件鉴定书

Certification for Safe Transport of Goods

样品名称及型号	镍氢电池 9V			
Sample Name & Model	NI-MH Battery 9V			
委托单位	深圳天诚巨能科技有限公司			
Applicant	Shenzhen Tcbest Battery Industry Co.,Ltd.			
生产单位				
Manufacturer	Shenzhen Tcbest Battery Industry Co.,Ltd.			
检验方法、程序 Inspection method and procedure	国际海事组织《国际海运危险货物规则》(2020版) (Amendment 40-20) IMO International Maritime Dangerous Goods Code (2020 Edition) (Amendment 40-20)			
样品外观及性状 Appearance & Properties	该样品为绿色固体电池。 The sample is a green solid battery.			
鉴定结果 Identification conclusion	 危险性识别(Hazard identification)单个货物运输组件中的总重量小于 100 A total quantity less than 100kg gross 按照国际海事组织《国际海运危险货物IMDG Code)根据特殊规定 963,按非限制性货物条According to the Special Provisions Code. 包装要求(Packaging requirements)普通包装,防止短路。Not restricted in IMO IMDG Code. When shall be protected from short circuit. 	mass in a cargo transp 勿规则》办理类项(Sug 件办理。 963, The goods are	ggestion according to IMC	
检验日期 Inspection date	2021-12-17 ~ 2022-01-04	签发日期 Issue Date	2022-01-04	
备注 Comment	本报告有效期至 2022 年 12 月 31 日。 The report is valid until December 31, 20			

主检人:

(Appraiser)

र्त्त्व वर्ष

批准人:

(Approver)





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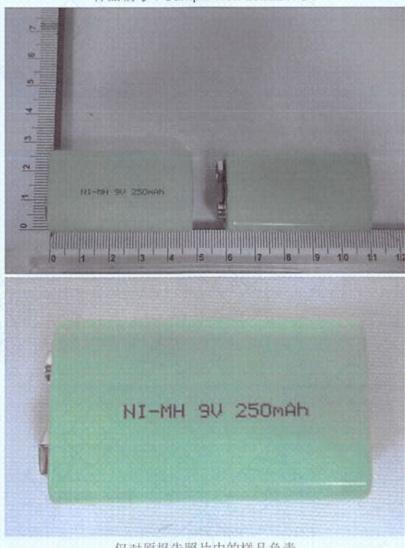
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样品图片 (Photo of the Sample):

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