



## Material Safety Data Sheets

For

MYD TECHNOLOGY LIMITED.

5F, B Block, Zhongzhi Times Square, Jianshe East Road, Longhua District, Shenzhen,  
China

and for their product

### NI-CD Battery

Model/type reference .....: NI-CD AA900mAh 1.2V

Trademark .....: MYD

Nominal Voltage.....: 1.2V

Version number.....: V4.0

Preparation Date.....: Jan. 08, 2020

Revision date.....: N/A.

---

Laboratory .....: **Shenzhen SEM Test Technology Co., Ltd.**

Address .....: 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd  
Road, Bao'an District, Shenzhen, P.R.C. (518101)

---

Compiled by (name+ signature) ..: Danica Lin

*Danica Lin*

Approved by (name+ signature) ..: Sam Li

*Sam Li*





## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product name: NI-CD Battery

Model: NI-CD AA900mAh 1.2V

### Other means of identification

Synonyms:none

### Recommended use of the chemical and restrictions on use

Recommended Use:Used in portable electronic equipments;

Uses advised against:

- a) Do not dismantle, open or shred secondary cells or batteries.
- b) Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- c) Do not short-circuit a cell or a battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- d) Do not remove a cell or battery from its original packaging until required for use.
- e) Do not subject cells or batteries to mechanical shock.
- f) In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- g) Do not use any charger other than that specifically provided for use with the equipment.
- h) Observe the plus (+) and minus (-) marks on the cell, battery and equipment and ensure correct use.
- i) Do not use any cell or battery which is not designed for use with the equipment.
- j) Do not mix cells of different manufacturer, capacity, size or type within a device.
- k) Battery usage by children should be supervised.
- l) Seek medical advice immediately if a cell or a battery has been swallowed.
- m) Always purchase the battery recommended by the device manufacturer for the equipment.
- n) Keep cells and batteries clean and dry.
- o) Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- p) Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- q) Do not leave a battery on prolonged charge when not in use.
- r) After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
- s) Retain the original product literature for future reference.
- t) Use only the cell or battery in the application for which it was intended.
- u) When possible, remove the battery from the equipment when not in use.
- v) Dispose of properly.

### Details of the supplier of the safety data sheet:

Supplier Name: MYD TECHNOLOGY LIMITED

Address: 5F, B Block, Zhongzhi Times Square, Jianshe East Road, Longhua District, Shenzhen, China

Telephone number of the supplier: 0086-0755-33953225

E-mail address: sale004@mydbattery.com

Fax: 0086-0086-0755-33953225

Report No.:STRT20010768S

Code postal: 518133

**Emergency telephone number**

Company Emergency Phone Number: 0086-0755-33953225

## 2. HAZARDS IDENTIFICATION

**Classification: (see section 14)**

No harm at the normal use. If contact the Electrolyte liquid in the NI-CD Battery, reference as follows:

**Classification of the substance or mixture**

Classification according to GHS

Acute Toxicity, Oral(Hazard category 4)

Acute Toxicity, Dermal(Hazard category 3)

Acute Toxicity, Inhalation (Hazard category 4)

Skin, irritate(Hazard Category 1B)

Hazardous to the aquatic environment, short-term(Acute): (Hazard category Acute 1)

Hazardous to the aquatic environment, long-term(Chronic): (Hazard category Chronic 1)

Eye Irritate (Hazard category 1)

**GHS Label elements, including precautionary statements:**

GHS02



GHS05



GHS07



GHS09

**Signal word: Warning Hazard statement(s):**

H242:Heating may cause a fire;

H314:Causes severe skin burns and eye damage;

H302:Harmful if swallowed;

H332:Harmful if inhaled;

H260:In contact with water releases flammable gases which may ignite spontaneously

H250:Catches fire spontaneously if exposed to air

H400:Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

**precautionary statements:****Prevention:**

P264 Wash thoroughly after handling.

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

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

P261:Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P223:Do not allow contact with water.

P231+P232:Handle and store contents under inert gas/...protect from moisture;

P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P222: Do not allow contact with air.

P231+P232:Handle and store contents under inert gas/....Protect from moisture;

Report No.:STRT20010768S



P233:Keep container tightly closed.

P273:Avoid release to the environment.

**Response:**

P312:Call a Poison center or doctor/physician if you feel unwell.

P302+P350-IF ON SKIN: Gently wash with plenty of soap and water

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

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

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

P302+P335+P334:IF ON SKIN:Brush off loose particles from skin and immerse in cool water.

P370+P378: In case of fire: Use...to extinguish

P302+P334:IF ON SKIN:Immerse in cool water or wrap in wet bandages.

P391:Collect spillage.

**Storage:**

P402+P404:Store in a dry place, store in a closed container.

**Disposal**

**P501:** Dispose of contents/container in accordance with local/national regulations **Hazards not otherwise classified (HNOC)**

Not Applicable

**Other information**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization: Mixtures**

**Description:**

Product: Consisting of the following components.

Common Chemical Name	Concentration (%)	CAS Number
Manganese dioxide	23.02	1313-13-9
Zinc	33.29	7440-66-6
Cellulose pulp	1.98	65996-61-4
Nylon-66	1.5	32131-17-2
Carbon	1.62	7440-44-0
Asphalt	1.71	8052-42-4
Iron	4.89	7439-89-6
PVC (Chloroethylene, polymer)	1.16	9002-86-2
Carbon black	4.22	1333-86-4
Graphite	1	7782-42-5
Zinc oxide	1	1314-13-2
Zinc chloride	6.31	7646-85-7
Water	17.3	7732-18-5



Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

## 4. FIRST-AID MEASURES

### First aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Swallowing Do not induce vomiting. Get medical attention.

Most Important Symptoms/Effects No information available.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical powder, water spray.

Unsuitable Extinguishing Media: No information available.

### Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide(CO)

Carbon dioxide

Other irritating and toxic gases.

### Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device.

Wear suitable protective clothing and eye/face protection.

### Special hazards arising from the substance or mixture:

Battery may burst and release hazardous decomposition products when exposed to a fire situation.

Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when

subjected to high temperature(>150°C), When damaged or abused(e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.



## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

### **Environmental precautions**

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

### **Methods and material for containment and cleaning up**

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Wash thoroughly after handling. Use this material with adequate ventilation.

The product is not explosive.

### **Conditions for safe storage, including any incompatibilities**

The storage area should be clean, cool, dry, ventilated and weatherproof. Incompatibilities: strong oxidizing agents, corrosives and foods. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.

For normal storage, the temperature should be between +10°C and +25°C and never exceed +30°C.

Extremes of humidity (over 95% and below 40% relative humidity) for sustained periods should be avoided since they are detrimental to both batteries and packaging. Batteries should therefore not be stored next to radiators or boilers, nor in direct sunlight.

The above recommendations are equally valid for storage conditions during prolonged transit. Thus, Batteries shall be stowed away from ships' engines and not left for long periods in unventilated metal box cars during summer.

**Incompatible Products** None known.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Control parameters**

none

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962(11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Measures** Showers

- Eyewash stations
- Ventilation systems

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection:**



**Tightly sealed goggles**

**Body protection:**

Protective work clothing.

**Skin protection:**



**Protective gloves**

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Form: Cylindrical	
	Odour: Monotony	
	Odor Threshold: No information available	
Change in condition:		
pH, with indication of the concentration		Not determined.
Melting point/freezing point		Not determined.
Initial boiling point and Boiling range:		Not determined.
Flash Point		Not determined.
Evaporation rate		Not determined.
Flammability (solid, gas)		Not determined.



Upper/lower flammability or explosive limits	Not determined.
Vapor Pressure:	Not determined.
Vapor Density:	Not determined.
relative density:	Not determined.
Solubility in Water:	Not determined.
Solubility in other solvents	Not determined.
n-octanol/water partition coefficient	Not determined.
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined.
Odour threshold	Not determined.
Evaporation rate	Not determined.
Viscosity	Not determined.
Other Information	No further relevant information available.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage and handling conditions (see section 7, Handling and storage).

**Chemical stability:** Stable under normal conditions of use, storage and transport.

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating, fire, Incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Strong acids. Base metals.

**Hazardous Decomposition Products:** Carbon oxides, Other irritating and toxic gases.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available.

**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** Cause serious eye irritation.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Specific target organ system toxicity:** No information available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No information available.

## 12. Ecological Information



**Toxicity:**

Acquatic toxicity:

No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Recommendation: Must not be disposed together with household garbage.

Do not allow product to reach sewage system

**Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

**Land transport**

ADR/RID class: Not regulated.

**Maritime transport**

Non-Hazardous for sea transport: Non-hazardous for sea transport.

The consignment has fulfilled the relevant special provision(s) as stipulated in the latest amendment of International Maritime Dangerous Goods (IMDG) Code for the exemption thus do not need to be treated as dangerous goods.

**Air transport**

Not restricted to IATA DGR according to special provision A123.

NI-CD Battery according to SP A 123 of the 2020 IATA Dangerous Goods regulations 61th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Panasonic alkaline battery. The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The NI-CD Battery having the potential of a 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 disconnection of the battery and protection of exposed terminals); 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.

The package must be handled with care and that a flammability hazard exists if the package is damaged;



## 15. REGULATORY INFORMATION

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

EU Regulation:

**Authorisations:** No information available.

**Restrictions on use:** No information available.

#### Regulatory information

CAS No.	EU (EINECS)	US (TSCA)	Japan (ENCS)	Canada (DSL/ NDSL)	Australia (AICS)	Korea (ECL)	China (IECSC)
1313-13-9	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
7440-66-6	Listed	Listed	Listed	DSL	Listed	Listed	Listed
65996-61-4	Listed	Listed	Listed	DSL	Listed	Listed	Listed
32131-17-2	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
7440-44-0	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
8052-42-4	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7439-89-6	Listed	Listed	Listed	DSL	Listed	Listed	Listed
9002-86-2	Listed	Listed	Listed	DSL	Listed	Listed	Listed
1333-86-4	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7782-42-5	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
1314-13-2	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
7646-85-7	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7732-18-5	Listed	Listed	Listed	DSL	Listed	Listed	Listed

#### Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Reference:

ISO 11014:2009 Safety data sheet for chemical products-Content and order of sections

GB/T 16483-2008 Safety data sheet for chemical products-Content and order of sections

#### Relevant phrases:

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

H302: Harmful if swallowed.

\*\*\*\*\*End of MSDS\*\*\*\*\*