

Material Safety Data Sheet

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Section 1 - Chemical Product and Company Identification

Product Name: NI-MH RECHARGEABLE BATTERY

Client Name: J&Y TECHNOLOGY CO.,LTD

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Section 2 - Hazards Identification

No specific health hazards for normal use

Routes of Entry

Eyes, Skin, Inhalation, Ingestion.

Health Hazards

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is acute exposure when a battery vents. Leaking material exposure to skin, eyes may cause irritation. Inhalation of fumes may cause respiratory irritation.

Sign/Symptoms of Exposure

Leaking can cause thermal and chemical burns upon contact with the skin.

Section 3 - Composition/Information on Ingredient

Composition:	Chemical Name	In % By Weight	CAS No.
Nickelous Oxide	NiO	46	1313-99-1
Cobalt Oxide	CoO	3.5	1307-96-6
Yttrium Oxide	Y ₂ O ₃	0.5	1314-36-9
Alloy Powder	---	---	--

Section 4 - First Aid Measures

Skin touch: In the event that battery ruptures, flush with large quantities of flowing lukewarm water for a minimum of 15

minutes. Wash skin with soap and water.

Eyes touch: In the event that battery ruptures, flush with large quantities of flowing lukewarm water for a minimum of 15 minutes. Get immediate medical attention for eyes.

Inhalation: Remove from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

Ingestion: Ingestion of a battery can be harmful.

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

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.

Section 7 - Handling and Storage

Handling: To supply with sufficient air exhaust. The operating staff must have received special training and abide by the operating regulations. In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container. Keep away from fire and heating sources. No smoking in the workplace.

Storage: Store in a dry place, storing unpackaged cells together could result in cell shorting and heat build-up.

Section 8 - Exposure Controls, Personal Protection

Maximum admissible concentration: No standard yet

Monitoring Method: /

Engineering Control: To supply with sufficient partial air exhaust.

Respiratory Protection: Wear self-contained breathing filtermask(full mask) if the density exceed in the air. Wear breathing apparatus under the condition of emergency rescue or evacuation.

Eyes Protection: not specially protection in common condition

Body Protection: Wear work clothes.

Hands Protection: Wear rubber gloves.

Other Protections: No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

Section 9 - Physical and Chemical Properties

Appearance characters: Red and black with odorless cylindrical battery.

Chemical Uses: Used in the toy model or power tools.

Section 10 - Stability and Reactivity

Stability: Stable under normal temperature.

Distribution of Ban: strong oxidizer

Conditions to Avoid: fire source, heating source, avoid electrical shorting

Hazardous Polymerization: will not occur

Hazardous Decomposition Products: Like any sealed container, battery cells may rupture when exposed to excessive heat, this could result in the release of flammable or corrosive materials.

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 irritation to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibroid lung injury and membrane irritation.

Section 12 - Ecological Information

Environment Effect

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

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

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental agency.

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 56th, IATA Special Provisions A123, International Maritime Dangerous Goods Regulations (IMDG), or 《Recommendations on the Transport of Dangerous Goods Model Regulations》 (17th).

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 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.

Section 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》
- 《Occupational Safety and Health Act》 (OSHA)
- 《Toxic Substances Control Act》 (TSCA)
- 《Consumer Product Safety Act》 (CPSA)
- 《Federal Environmental Pollution Control Act》 (FEPCA)
- 《The Oil Pollution Act》 (OPA)
- 《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)
- 《Resource Conservation and Recovery Act》 (RCRA)
- 《Safety Drinking Water Act》 (CWA)
- 《California Proposition 65》
- 《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and Local laws.

Section 16 - Additional Information

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 MSDS