

BST Rechargeable Battery

Material Safety Data Sheet
Document No.: MSDS2583

IDENTITY (As Used on Label and List) NICKEL CADMIUM RECHARGEABLE BATTERY	Note: Blank spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate that.
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Section I – Information of Manufacturer

Manufacturer's Name BST POWER (SHENZHEN) LIMITED	Emergency Telephone Number
Address (Number, Street, City State, and ZIP Code) No.9, Longxing Road, Xintang New Industrial Zone, Dakang Village, Henggang Town, Longgang District, Shenzhen 518115	Telephone Number for information 86-755-84260300-2613
	Date Prepared 1-Jan-17
	Signature of Preparer (optional)



Section II – Hazardous Ingredients / Identity Information

Hazardous Components:		
Description:	Approximate % of total weight	CAS NO
Nickel Hydride	31%	7440-02-0
Cadmium	39%	7440-43-9
Electrolyte	7%	1310-58-3
Co	3%	7440-48-4
Fe	20%	7439-89-6



Section III – Physical / Chemical Characteristics

Boiling Point N.A.	Specific Gravity (H ₂ O=1) N.A.
Vapor Pressure (mm Hg) N.A.	Melting Point N.A.
Vapor Density (AIR=1) N.A.	Evaporation Rate (Butyl Acetate) N.A.

Solubility in Water
N.A.

Appearance and Odor
Cylindrical Shape, odorless



Section IV – Hazard Classification

Classification
N.A.

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Section V – Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	X

Incompatibility (Material to Avoid)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	X

Section VI – Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	N.A.	N.A.	N.A.

Health Hazard (Acute and Chronic) / Toxicological information

- In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte.
- In contact with electrolyte can cause severe irritation and chemical burns.
- Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs

Section VII – First Aid Measures

First Aid Procedures

- If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.
- If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen minutes, and contact a
- If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.

Section VIII – Fire and Explosion Hazard Data

Flash Point (Method Used)	Ignition Temp.	Flammable Limited	LEL
N.A.	N.A.	N.A.	N.A.

Extinguishing Media

Carbon Dioxide, Dry Chemical or Foam extinguishers

Special Fire Fighting Procedures

N.A.



Unusual Fire and Explosion Hazards

Do not dispose of battery in fire - may explode.

Do not short-circuit battery - may cause burns.

Section IX – Accidental Release or Spillage

Steps to be taken in case material is released or spilled

- Batteries that are leakage should be handled with rubber gloves.
- Avoid direct contact with electrolyte.
- Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA).



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Section X – Handling and Storage

Safe handling and storage advice

- Batteries should be handled and stored carefully to avoid short circuits.
- Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries.
- Never disassemble a battery.
- Do not breathe cell vapors or touch internal materials with bare hands.
- Keep batteries between -30°C and 35°C for prolong storage.

Section XI – Exposure Controls / Person Protection

Respiratory Protection (Specify Type)

N.A.

Ventilation	Local Exhausts	N.A.	Special	N.A.
	Mechanical (General)	N.A.	Other	N.A.
Protective Gloves	N.A.		Eye Protection	N.A.

Other Protective Clothing or Equipment

N.A.

Work / Hygienic Practices

N.A.

Section XII – Ecological Information

N.A.

Section XIII – Disposal Method

Dispose of batteries according to government regulations.



Section XIV -- Transportation Information

BST batteries are considered to be "Dry Cell" batteries and are unregulated for purposes of transportation by the U.S. Department Transportation (IATA), International Civil Aviation Administration (ICAO), International Sea Transport Association (ISTA) and Maritime Dangerous Goods Regulations (IMDG), The only under A123(ISTA) requirement for shipping these batteries is special states: "Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). As of 1/1/ ISTA requires batteries being transported by air must be protected from short-circuiting and protected from movement that could lead to short-sirtcuiting with special provision 304 of IMDG.

Section XV – Regulatory Information

Special requirement be according to the local regulatory..

Section XVI – Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

Section XVII – Measures for fire extinction

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

Sealed Ni-Cd batteries with sleeve are considered as "Dry Batteries", "NON-DG" and protected from short-circuit

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.