

U.S. Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1216-0072

Material Safety Data Sheet  
May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

Note: Blank spaces are not permitted. If any data is not applicable, or no  
information is available, the space must be marked to indicate that.

IDENTITY (As listed on Label and List)  
**Nickel Metal Hydride (TR-1500A) Battery**

Section I BATTERY (Size Ref. A/5A)

Manufacturer's Name  
**TOSHIBA BATTERY CO., LTD.**

Address (Number, Street, City, State, and Zip Code)

13-10 GINZA 7-CHOME CHUO-KU TOKYO

104 JAPAN

Emergency Telephone Number

Telephone Number for Information

03-3447-8173

Date Prepared

August 24, 1993

Signature of Preparer (optional)

*TH*

Section II — Hazardous Ingredients/Identify Information

Hazardous Components (Specific Chemical Name, Common Name)

OSHA PEL

ACGIH TLV

Other Limits Recommended

N (optional)

Components firmly sealed within Ni-plated steel case

|                         |         |
|-------------------------|---------|
| (1) Nickel              | 32.2wt% |
| (2) Cobalt              | 3.8wt%  |
| (3) Manganese           | 1.5wt%  |
| (4) Potassium hydroxide | 2.6wt%  |
| (5) Mn (Rare Earths)    | 9.8wt%  |

Section III — Physical/Chemical Characteristics

|                         |     |                             |                     |
|-------------------------|-----|-----------------------------|---------------------|
| Boiling Point           | N/A | Specific Gravity (20°C = 4) |                     |
| Vapor Pressure (mm Hg)  | N/A | Melting Point               |                     |
| Vapor Density (AIR = 1) | N/A | Evaporation Rate            | (Basis Acetate = 1) |
| Solubility in Water     | N/A |                             |                     |

Appearance and Odor  
Leak proof cylindrical steel can having chemical components in it/No odor

Section IV — Fire and Explosion Hazard Data

|                                  |                    |                  |     |     |
|----------------------------------|--------------------|------------------|-----|-----|
| Flash Point (ASTM Method)        | N/A                | Flammable Limits | LEL | UEL |
| Extinguishing Media              | Water . CO2 . Sand |                  |     |     |
| Special Fire Fighting Procedures | N/A                |                  |     |     |

Unusual Fire and Explosion Hazards  
Incineration, short-circuit or unusual high current charge or reverse charge  
may cause fire or rupture.  
(Precaution locality)

OSHA 171, Sept. 1983

