新利達電池實業有限公司
NEW LEADER BATTERY INDUSTRY LTD.
九龍官塘開源道62號駱駝漆大廈第一期四樓A座
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Material Safety Data Sheet Model No.: New Leader / Coin Type Lithium battery

Model No. CR2016, CR2025, CR2032 Lithium Battery

Manufacturer's Name

New Leader Battery Industry Ltd.,
Emergency Telephone Number 27906280 or call Local Emergency 999, or 119
Address Flat A, 4/F , Block 1 ,Camelpaint building,
62 Hoi Yuen Road, Kwun Tong, KLN, Hong Kong
Telephone Number for information
852-2790 6280

Section I –

a. Hazardous Ingredients / Identity Information

Hazardous Components:
Description: Approximate % of total weight
Mercury : NIL Wt%
Cadmium : NIL Wt%
Metallic Lithium : 2-3 Wt%

b. Other Ingredient

Electrolyte 2 wt%
Anode Can 30 wt%
Cathode Cap 25 wt%
Managanese Dioxide 35 wt%

Section II - Physical / Chemical Characteristics

Boiling Point
N.A. Specific Gravity (H2O=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 - Fire and Explosion Hazard Data

Flash Point (Method Used)
N.A. Flammable Limits
N.A. LEL
N.A. UEL
N.A.
Extinguishing Media
N.A.
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.

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Section III – Reactivity Data

Stability Unstable

Conditions to Avoid

Stable

X

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

Hazardous

Polymerization May Occur Conditions to Avoid

Will Not Occur

Section IV - Health Hazard Data

Route(s) of

Entry

Inhalation?

N.A.

Skin?

N.A.

Ingestion?

N.A.

Health Hazard (Acute and Chronic) / Toxiclogical 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 V – 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 (15) minutes, and contact a physician.

If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.

Section VI - Fire and Explosion Hazard Data

Flash Point (Method Used)

N.A.

Ignition Temp.

N.A.

Flammable Limits

N.A.

LEL

N.A.

UEL

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.

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Section VII – 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).

Section VIII – 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 material with bare hands.

Keep batteries between -30°C and 35°C for prolong storage.

Section IX – Exposure Controls / Person Protection

Occupational Exposure Limits: LTEP

N.A.

STEP

N.A.

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 X – Ecological Information

N.A.

Section XI – Disposal Method

Dispose of batteries according to government regulations.

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Section XII – Transportation Information

New Leader batteries are considered to be “Dry cell” batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG). The only DOT requirement for shipping these batteries is special provision 130 which states: “Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). As of 1/1/97 IATA requires that batteries being transported by air must be protected from short-circuiting and protected from movement that could lead to short-circuiting.

Section XIII – Regulatory Information

Special requirement be according to the local regulatories.

Section XIV – Other Information

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

Section XV – 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.