

Ultra Max PJ996 Carbon Zinc Battery

This information provides material safety data for ULTRA MAX Carbon Zinc 4R25/PJ996 'Lantern' battery manufactured for BARUCH ENTERPRISES LTD.

Material Safety Data Sheet

TYPE: Carbon Zinc Primary Battery

PART NUMBER: PJ996UMX

DATE: 1 March 2005

Identity: Zinc Carbon 4R25 batteries

Section 1

Manufactured for: BARUCH ENTERPRISES LTD

Address: WATKINS HOUSE, PEGAMOID ROAD, LONDON, N18 2NG

Telephone Number for information: 020 8803 8899

Date of preparation and revision: 01/03/2005 (Rev.1)

Emergency telephone number: 020 8803 8899

Section 2 - Hazardous Ingredients/Information

<u>Hazardous Component</u>	<u>Approximate % of Total Weight</u>
Manganese Dioxide (MnO ₂)	30
Zinc (Zn)	20
Graphite (C)	2
Zinc Chloride (ZnCl ₂)	6
Acetylene Black	5
Lead (Pb)	0.03
Mercury (Hg)	0
Cadmium (Cd)	0

Section 3 - Physical/Chemical Characteristics

Boiling Point (°C): N A (MnO₂), 907(Zn), NA(C), 732(ZnCl₂)

Vapor Pressure (mmHg): N A (MnO₂), 1mm Hg @ 487°C (Zn), NA(C), NA(ZnCl₂)

Vapor Density (air=1): N A (MnO₂), N A (Zn), NA (C), NA (ZnCl₂)

Solubility in water: Insoluble (MnO₂), Reacts (Zn), Insoluble(C), 432%(ZnCl₂)

Specific Gravity (H₂O=1): 5.026(MnO₂), 7.14(Zn), 2.09~2.23(C), 2.91(ZnCl₂)

Melting Point (°C): 535°C (MnO₂), 420°C (Zn), 3650°C, 283°C (ZnCl₂)

Evaporation Rate (butyl Acetate = 1): N.A (MnO₂), Zn, C, ZnCl₂)

Appearance and odor: No Data Available

Section 4 - Fire and Explosion Hazard Data

Flash Point (method used): N/A

Extinguishing Media: N/A

Flammable Limits: Lel Pel

Special Fire Fighting Procedures: Fire fighters should use self-contained breathing apparatus when a large number of cells are involved in a fire.

Unusual fire and explosion Hazards: Batteries may release toxic zinc fumes when exposed to fire.

Section 5 - Reactivity

Stability: Stable

Condition to avoid: Do not heat, disassemble or recharge

Hazardous Polymerization: Will not occur

Section 6 - Health Hazard Data

Routes of entry: Inhalation: Yes Ingestion: Yes

Acute/chronic Health Hazard: None

Carcinogenic: Ntp: No Irac Monograph: No Osha regulated: No

Signs/symptoms of exposure: None

Medical conditions generally aggravated by exposure: An acute exposure will not generally aggravate any medical condition.

Emergency & First Aid procedures: If accidentally ingested, seek medical attention promptly.

Section 7 - Precautions for safe handling and use

Steps to be taken in case of spillage: Avoid skin or eye contact

Waste disposal method: Individual consumers may dispose with household rubbish. Industrial users must landfill in accordance with appropriate regulations. Do not incinerate since cells may explode at excessive temperatures.

Precautions to be taken in handling and storage: Avoid mechanical, physical and electrical abuse. Store in a cool place but prevent condensation on battery or battery terminals. Elevated temperatures can result in shortened battery life.

Additional Precautions:

Do not attempt to recharge. Install cells in accordance with equipment instructions.

Do not dispose of in fire. Replace all batteries in equipment at the same time.

Do not mix battery types such as Zinc Carbon and Alkaline in the same equipment.

Do not carry batteries loose in pocket or bag.

Section 8 - Control Measures

Respiratory Protection: Self-contained breathing apparatus when numbers of batteries are involved in fire.

Ventilation: Subsequent to a fire, provide as much ventilation as possible.

Protective Gloves: Not ordinarily required but, neoprene rubber or latex-nitride gloves are recommended when handling leakages.

Eye Protection: Safety glasses when handling leakages.

Other Protective Clothing or Equipment: None