MATERIAL SAFETY DATE SHEET

According to the European directive 2006/66/EC

Product: Alkaline batteries

Date:6/13/2005

Rev: 1

1. Chemical Product

Name: Cylindrical Alkaline Cells- LR20, LR14, LR6, LR03, LR1, LR12, LR8D425 and batteries

comprised of these cells(e.g.,6LR61,4LR61.3LR12,4LR25)

Mamufacturer: Changzhou Daily-max Battery Co,. Ltd.

Address: No.39-1 Huayuan Road Changxhou Jiangsu Pro. China 213016

Telephone: =86-519-83276710

2. Composition/Information on Ingredients:

Chemical Nature: Alkaline zine-manganese dioxide batteries

CAS-No/EINECSNO.:Not applicable

INCI CTNFA-Description?

Tariff No.:8506,1010

Dangerous ingredients which have to be mentioned according to 99/45/EEC and it adaptations

Chemical Name	HAZATDOUS%	TLV(UNITS)	RISKPHRASES	CAS No.
Manganese dioxide	35-40	Not present	R20/22	1313-13-9
Zinc	10-25	10mg/m^3	R15/17	7440-66-6
Potassium hydroxide(38	8%) 5-10	2 mg/m^3	R22/35	1310-58-3

3. Hazards identifications

General advice: The common known rules for handing of chemicals should be obeyed. These chemicals are contained in a sealed steel can, For consumer use, adequate hazard warnings are printed on both the package and the battery. Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically. or electrically abused. Concentrated potassium hydroxide contained is caustic. Anticipated potential leakage or potassium hydroxide is 2-20mL, depending on battery size, Do not eat and drink batteries. Keep batteries away from small children.

Physical-Chemical Hazards: This preparation is not classified as dangerous according to the criteria of directive 99/45/EEC

Hazards to man: If battery leaking, exposure to caustic ingredients may occur. Therefore, may cause sensitization by skin contract.

Hazards to environment: Not applicable.

4. First-aid measures:

Inhalation: In case of excessive inhalation due to leaking batteries remove to fresh air. Obtain medical advice.

Skin Contact: If exposed to a leaking battery, remove contaminated clothing. Wash exposed areas with plenty of water and soap. If irritation occurs, consult a physician.

Eye contact: If a battery is leaking and materials contact eyes, flush immediately with running water for at least 15minutes. Consult an ophthalmologist at once.

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Ingestion: Not anticipated due to size of batteries. Choking may occur with the smaller size batteries. If exposed to a leaking battery, rinse mouth and surrounding areas with running water for at least 15 minutes. Give plenty of water to drink. Do not induce vomiting. Obtain medical advice.

5. Fire-fighting measures.

Suitable extinguishing media: Carbon dioxide (CO₂), Foam, dry chemical powder.

Extinguishing media not to be used: Never use a direct water jet.

Exposure hazards from combustion products: In case of fire, carbon dioxide, carbon monoxide and other toxic organic substances will be generated. Do not inhale fumes and smoke.

Personal protective equipments: Wear full protective clothing. Use self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Notify safety personnel of large spills. Caustic potassium hydroxide may be released from lacking or ruptured batteries. Avoid eye or skin contact and inhalation of vapours. Increase the ventilation. Wear protective clothing. Keep unprotected persons away.

Environmental precautions: Avoid discharge and penetration into sewerage systems. waterways, pits. and cellars.

Methods for cleaning up: Collect spilled material with an insert standard absorbent like sand or silica. Care for well-ventilated conditions. Recycle or dispose of the materials in an appropriate way.

7. Handling and storage

General handling: Obey the common known rules and precautions for handling with chemicals. Avoid mechanical and electrical abuse. Do not short battery or install incorrectly. Batteries may explode pyrolize or vent if disassembled, crushed, crushed, recharged or exposed to high temperatures. Install batteries according to equipment instructions. Do not mix battery systems, such as alkaline and zinc-carbon. Replace all batteries in equipment at the same time. Do not carry batteries loose in pocket or bag. Do not remove battery labels.

Storage: Store product in well-filled, appropriate coated and tightly closed containers avoiding influence of oxygen/air, light and humidity. Store at room temperature.

8. Exposure controls and personal protection

Exposition/Technical measures: Atmospheric vapour concentrations must be minimized by adequate ventilation.

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Protection of hands, eyes and skin: None required under normal use conditions. When handling leaking batteries, use neoprene. rubber or nitrile gloves and wear safety glasses to protect hands, eyes and skin.

General safety and hygiene measures: Use only as directed.

9. Physical and chemical properties

Physical state: Stainless steel top battery Colour: Contents dark and gray in clolur

Odour : Not applicable
Melting point: Not applicable
Boiling point: Not applicable
Flash Point: Not applicable

Explosion limit: Not available Ignition temperature: Not available Vapour pressure: Not available Specific gravity: Not applicable Solubility in water: Not applicable

Solubility in other solvents: Not applicable

PH value: Not available

Partition coefficient: Not available

Viscosity: Not available

10. Stability and Reactivity

Thermal decomposition: Batteries may burst and release hazardous decomposition products when exposed to fire.

Substances to avoid: Strong oxidation agents.

Hazardous reactions: Contents incompatible with strong oxdising agents.

Hazardous decomposition products: Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas; caustic vapours of potassium hydroxide and other toxic by-products.

11. Toxicogical information

Thermal information is available on the battery ingredients noted in Section 2,but in general, mot applicable to intact batteries.

Chronic health effects: Not applicable to intact batteries

12. Ecological information

Not available

13.Disposable considerations

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Product: Dispose in accordance with appropriate regulations. If in doubt, contact your local government office concerned for information. Do not incinerate, since batteries may explode at excessive temperatures.

14.Tranaport Information

Road (ADR/RID): Not regulated Air (ICAO/IATA):Not regulated Sea (IMDG); Not regulated

These batteries are not regulated by international agencies as hazardous materials or dangerous goods when shipped. A shipping name of "Alkaline batteries Non-hazardous" may be used on all domestic and international bills of lading

15.Regulatery Information

Symbol: N/A

EC labeling: None Risk phrases: None Safety phrases: None

Labeling in not required alkaline batteries are classified as "articles" under the Dangerous Preparations

Directive and as such are exempt from the requirements of the Directive.

16.Other information

The information on this Material Safety Date Sheet (MSDS) was obtained form current and reputable sources. However, the data is provided without any warranty; expressed or implied, regarding its correctness of accuracy. It is the user's responsibility to assume liability on loss, injury, damage, or expense resulting from improper use of this product. Any previous MSDS of this product. mentioned above are hereby replaced with this new document. We urge you to make this information available as appropriate in your organization and to any others with whom you arrange to handle this product.