VARTA Microbattery

mobility for you

 Types
 : Primary Alkaline Cylindrical

 Chemical system
 : MnO2 | KOH | Zinc
 Date: 2005-08-05

1. TYPE, VOLTAGE, AND WEIGHT

Cell Type	Type-No.	Voltage (V)	Weight (g)
LR 03	4103	1.5	11
LR 6	4106	1.5	23
LR 14	4114	1.5	69
LR 20	4120	1.5	141
6 LR 61	4122	9	46

2. INGREDIENTS

		Approx. percentage (% of total weight
Active materials*	- Manganese dioxide - MnO₂ - Zinc - Zn - Potassium hydroxide - KOH	24 - 40 10 - 19 4 - 7
Main passiv materials*	- Steel - Copper - Nickel - Plastic	15 - 26 0.5 - 2 0.1 - 0.3 2 - 6
	Mercury content - Hg < 1 mg/kg Cadmium content - Cd < 5 mg/kg Lead content - Pb < 90 mg/kg	

* All cells are sealed round cells or batteries of them, no chemical hazard will be posed as long as the cell remains in sealed condition.

3. SAFETY GUIDELINE

- 3.1 Keep out of the reach of children. If swallowed, contact a physician at once.
- 3.2 Do not heat. Nor dispose in fire. May burst or release toxic materials.
- 3.3 Avoid forced discharge.
- 3.4 Do not short circuit, may cause burns.
- 3.5 Do not charge.
- 3.6 Do not solder the battery directly.
- 3.7 Do not disassemble, apply excessive pressure or deform.
- 3.8 Battery compartment should provide sufficient space for battery to expand in case of abuse.
- 3.9 Either battery compartment or battery connector should have a design that makes it impossible to place the battery in reverse polarity.
- 3.10 Equipment intended for use by children should have tamper-proof battery compartment.
- 3.11 Battery of different electrochemical system, grades, or brands should not be mixed.
- 3.12 Battery disposal method should be in accordance with local and state regulations.

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MATERIAL DATA SHEET