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This product is a consumer product which is used in a hermetically sealed state. So, it is not an object of the SDS system. This document is provided to customers as reference information for the safe handling of the product. The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Panasonic Corporation makes no warranty expressed or implied.

PRODUCT SAFETY DATA SHEET

1 Chemical product and company identification

Name of Product

: Alkaline button type battery

(Designation) LR1120, LR1130, LR41, LR43, LR44, 4LR44

Name of Company

Panasonic Corporation Automotive & Industrial Systems Company

Address

: 1-1 Matsushita-cho, Moriguchi-city, Osaka, 570-8511, Japan

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Division

Energy Device Business Division

Department

Engineering Department

Emergency Contact

+81-6-6994-4560 (Working hours)

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2 Hazards identification

GHS Classification

Not applicable

Toxicity

When the leaked liquid adheres to the skin, it may cause the damage

of the skin. When it is gotten in eye, it may cause the damage of eye

such as losing sight.

Hazard

There is the risk of explosion if batteries are disposed in fire, heated

above 100 degree C. Stacking or jumbling batteries may cause

external short circuits, heat generation and explosion.

3 Composition/information of ingredients

Component	Material	CAS No.	Content (%)
Positive electrode	Manganese dioxide	1313 - 13 - 9	20 - 45
Negative electrode	Zinc	7440 - 66 - 6	5 · 20
Electrolyte	Potassium hydroxide solution	1310 - 58 - 3	2 · 10



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4 First aid measures (in case of electrolyte leakage from the battery)

Eye contact by electrolyte : Do not rub eyes. Wash immediately with large amount of clean

water such as tap water 15 minutes or more then receive the ophthalmologist's treatment promptly. It may cause such as

losing sight when the right procedure is not taken.

Skin contact by electrolyte : Wash the affected area under tepid running water using a mild

soap. If appropriates procedures are not taken, this may cause sores on the skin. Get medical attention if irritation develops or

persists.

Ingestion of electrolyte : Wash in the mouth immediately with large amount of clean

water and make the sufferer drink a lot of water.

Arrange for transport to the nearest medical facility for

examination and treatment by a physician as soon as possible.

Inhalation of electrolyte fume : Remove to fresh air immediately. Take a medical treatment

5 Firefighting measures

Fire extinguishing agent : Alcohol-resistant foam and dry sand are effective.

Extinguishing method : Since vapor, generated from burning batteries may make eyes,

nose and throat irritates, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in

some cases.

6 Accidental release measures (in case of electrolyte leakage from the battery)

Take up with absorbent cloth, treat cloth as inflammable.

Move the battery away from the fire.

7 Handling and storage

Handling

- When packing the batteries, do not allow battery terminals to contact each other, or contact with other metals. Be sure to pack batteries by providing partitions in the packaging box, or in a separate plastic bag so that the single batteries are not mixed together.
- · Use strong material for packaging boxes so that they will not be damaged by vibration, impact, dropping and stacking during their transportation.
- · Do not short-circuit, recharge, deform, throw into fire or disassemble.
- · Do not mix different type of batteries.
- · Do not solder directly onto batteries.
- · Insert the battery correctly in electrical equipment.



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Storage

- Do not let water penetrate into packaging boxes during their storage and transportation.
- Do not store the battery in places of the high temperature or under direct suplight
- · Please also avoid the places of high humidity. Be sure not to expose the battery to condensation, rain or frozen condition

8. Exposure controls and personal protection

Acceptable concentration

Not specified about Alkaline button Battery.

Facilities

Nothing in particular.

Protective Equipment (in case of electrolyte leakage from the battery)

:

Respiratory Protection

: For most condition no respiratory protection.

Hand Protection

Safety gloves.

Eye Protection

Safety goggle

Skin and Body Protection

To prevent any contact, wear impervious clothing such as boots or

whole body suits as appropriate.

9. Physical and chemical properties

Appearance

: Button shape

Nominal Voltage

: 1.5 V

10. Stability and reactivity

Since batteries utilize a chemical reaction they are actually considered a chemical product.

As such, battery performance will deteriorate over time even if stored for a long period of time without being used. In addition, the various usage conditions such as discharge, ambient temperature, etc. are not maintained within the specified ranges the life expectancy of the battery may be shortened or the device in which the battery is used may be damaged by electrolyte leakage.

11. Toxicological information (in case of electrolyte leakage from the battery)

Battery is not harmful as its ingredients are in a hermetically sealed state.

12. Ecological information

In case of the worn out battery was disposed in land, the battery case may be corroded, and leak electrolyte.

Mercury (Hg), Cadmium (Cd) and Lead (Pb) are not used in cell.

13. Disposal considerations

When the battery is worn out, dispose of it under the ordinance of each local government.



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14. Transport information

Handling:

During the transportation of a large amount of batteries by ship, trailer or railway, do not leave them in the places of high temperatures and do not allow them to be exposed to condensation.

During the transportation do not allow packages to be dropped or damaged.

UN Number and UN Class:

Not applicable

Not Dangerous Goods. For air transportation, the words "Not Restricted, as per Special Provision A123" must be included in the description of the substance on the Air Waybill, when an Air Waybill is issued.

15. Regulatory information

- EU Battery Directive (2006/66/EC, 2013/56/EU)
- Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- · State of California Regulations · Best management practices for Perchlorate Materials

16. Other information

This PSDS is provided to customers as reference information in order to handle batteries safely. It is necessary for the customer to take appropriate measures depending on the actual situation such as the individual handling, based on this information.

References

- · IATA Dangerous Goods Regulations 58th Edition(2017)
- · IMO International Maritime Dangerous Goods Code 2014 Edition

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