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Thank you for contacting Icom America, Inc.

American Communication Systems
Discover the Power of Communications™
<http://www.ameradio.com>



Attached you will find the Safety Data Sheet (SDS) for the following battery:

Part Number	Description
BP234	9.0V 3300mAh Lithium Battery

This Manganese Dioxide Lithium Battery battery has 6 cells and is manufactured by Panasonic Corporation.

The Country of Origin is: Japan

If you have any further questions or require additional information, please do not hesitate to contact our Customer Service Department at 1-800-USA-ICOM or email of sales@icomamerica.com.

We appreciate your valued support of our quality line of equipment.

IATA - Lithium Ion Batteries (NOT RESTRICTED, Labeling, Marking and Completion of AWB)

- PI-965 SII when they are packaged battery only (when purchased as spare battery)
- PI-966 SII when they are packaged together with radios (when purchased as radio that box includes one battery without attached to the radio).
- See the following link for Lithium Batteries information:
<http://www.iata.org/whatwedo/cargo/dgr/Pages/lithium-batteries.aspx>

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

- Eye contact : Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing. Get immediate medical treatment. If appropriate procedures are not taken, this may cause eye injury.
- Skin contact : Wash the contact areas off immediately with plenty of water and soap. If appropriate procedures are not taken, this may cause sores on the skin.
- Inhalation : Remove to fresh air immediately. Get medical treatment immediately.

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.
- 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 sunlight.
 - 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 in ACGIH.
Facilities : Provide appropriate ventilation system such as local ventilator in the storage place.

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

- Respiratory Protection : Self-Contained Breathing Apparatus for organic gases
Hand Protection : Safety gloves.
Eye Protection : Safety goggle

9. Physical and chemical properties

- Appearance : Cylindrical shape
Nominal Voltage : 3 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)

- Acute toxicity : Oral(rat) LD50 > 2000mg/kg (estimated)
Irritation : Irritating to eye and skin.
Mutagenicity : Not specified.
Chronic toxicity : Not specified.

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.

14. Transport information

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.

- Proper shipping name : Lithium metal batteries
- UN Number, UN Class : UN3090, Class9 (for the Air transport by PI968 Section IA or IB)
 : Exemption (for the Marine transport and the Air transport by Section II of PI 968, 969 or 970)
 Even though the cells are classified as lithium metal batteries (UN3090 or UN3091), they are not subject to some requirements of Dangerous Goods Regulations because they meet the following:
1. for cells, the lithium content is not more than 1g ;
 2. each cell is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part , sub-section 38.3.
 3. each cell is manufactured in ISO9001 certified factory.

Please refer to the following reference information about concrete ways of transportation. Actual content of packaging label and shipping documents varies by shipping companies. Make sure to confirm in advance with your shipping company.

Information of reference

	Reference	Packing Instruction(PI)/ Special provision(SP)	Note
Air transport	IATA DGR	PI 968 Section A	Cells, Cargo Aircraft only; Net quantity per package Max. 35kg
		PI 968 Section B	Cells, Cargo Aircraft only; net quantity per package Max. 2.5kg
		PI 968 Section	Cells, on Cargo Aircraft only, not more than one package in any single consignment. Maximum number of cells per package; 8 cells
		PI 969 Section	Cells packed with equipment
		PI 970 Section	Cells contained in equipment
Marine transport	IMDG Code	SP 188	

15. Regulatory information

- IATA Dangerous Goods Regulations 58th Edition (IATA DGR)
- IMO International Maritime Dangerous Goods Code 2014 Edition (IMDG Code)
- UN Recommendations on the Transportation of Dangerous Goods, Model Regulations
- UN Recommendations on the Transportation of Dangerous Goods, Manual of Tests and Criteria
- 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.



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Declaration

Date : 2016/2/9

Ref : CYCRE-PSDS-01

To Whom It May Concern

We, Icom Incorporated, addressed at 1-1-32, Kamiminami, Hirano-ku, Osaka, 547-0003, Japan, hereby declare that cylindrical type cells mentioned in safety data sheet for chemical products (SDS), reference number CYCRE-PSDS-01, is used for following Icom Lithium Metal battery pack.

Product (Cylindrical type cell)	Icom Model Name
CR-AAS	BP-234

Icom Incorporated

Export Sales Department

American Communication Systems

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