

Safety Data Sheet

Issuing date : September 8, 2009
Revision date : May 7, 2015

SDS # :BA0034-05
Version :150501

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Identifier

Product name: Lithium Ion Battery BP-915
Product Code: 3057A
Watt-hour rating 11Wh
Relevant Identified Uses: Battery for Video camera

Details of the supplier of the safety data sheet

Supplier:
Address:
Phone number:
E-mail Address:

Manufacturer: Canon Inc.
Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2: Hazards identification

Class Name : Not applicable for regulated class

Hazard : It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable.
In case of electrolyte leakage, move the battery from fire immediately.

Toxicity : Vapor generated from burning batteries, may make eyes, skin and throat irritate.

SECTION 3: Composition/information on ingredients

IMPORTANT NOTE:

The battery pack uses two US18650S lithium-ion rechargeable cells and control circuit on the PWB.

The cells are connected in 2 cells in series.

The battery pack should not be opened or burned since the following ingredients contained within the cell that could be harmful under some circumstance if exposed or misused.

The cells contain neither metallic lithium nor lithium alloy.

Cathode:	Lithium Cobalt Oxides	(active material)
	Polyvinylidene Fluoride	(binder)
	Graphite	(conductive material)
Anode:	Graphite	(active material)
	Polyvinylidene Fluoride	(binder)
Electrolyte:	Organic Solvent	(non-aqueous liquid)
	Lithium Salt	
Others:	Heavy metals such as Mercury, Cadmium, Lead, and Chromium are not used in the cell.	
Enclosure:	Plastic (PC)	
UN number:	UN3480	

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SECTION 4: First aid measures

The product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required.

- Eye Contact: Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing, and call a doctor. If appropriate procedures are not taken, this may cause an eye irritation.
- 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, and call a doctor.

SECTION 5: Firefighting measures

- Use specified extinguishers (gas, foam, powder) and extinguishing system under the Fire Defense Law.
- Since corrosive gas may be produced at the time of fire extinguishing, use an air inhalator when danger is predicted.
- Use a large amount of water as a supportive measure in order to get cooling effect if needed.
(Indoor /outdoor fire hydrant)
- Carry away flammable materials immediately in case of fire.
- Move batteries to a safer place immediately in case of fire.

SECTION 6: Accidental release measures

- Wipe off with dry cloth
- Keep away from fire
- Wear safety goggles, safety gloves as needed

SECTION 7: Handling and storage

- Storage: Store within the recommended limit of - 20°C to 45°C (- 4°F to 113°F), well-ventilated area. Do not expose to high temperature (60°C / 140°F). Since short circuit can cause burn hazard or gas release, do not store with metal jewelry, metal covered tables, or metal belt.
- Handling: Do not disassemble, remodel, or solder. Do not short + and - terminals with a metal.
Do not open the battery pack.
- Charging: Charge within the limits of 0°C to 40°C (32°F to 104°F) temperature. Charge with specified charger designed for this battery pack.
- Discharging: Discharge within the limits of - 10°C to 50°C (14°F to 122°F) temperature.
- Disposal: Dispose in accordance with applicable federal, state and local regulations.
- Caution: Only charge using the charger produced for its exclusive use.
Do not: Incinerate, Heat, Disassemble or Short.

SECTION 8: Exposure controls/personal protection

- Acceptable concentration: Not specified in ACGIH.
- Facilities: Provide appropriate ventilation such as local ventilation system in the storage.
- Protective clothing: Gas mask for organic gases, safety goggle, safety glove.

SECTION 9: Physical and chemical properties

- Appearance: Lithium ion rechargeable cells are set in a resin case.
- Average Operating Voltage: 7.2V

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SECTION 10: Stability and reactivity

External short-circuit, deformation by crush, high temperature (over 100°C) exposure of a battery cause generation of heat and ignition.

SECTION 11: Toxicological information

Acute toxicity: No information as a battery
Local effects: No information as a battery

SECTION 12: Ecological information

When exhausted battery is buried in the ground, corrosion may be caused on the outer plastic case of battery and electrolyte may be oozed. There is no information on environmental influence.

SECTION 13: Disposal considerations

When battery is disposed, isolate positive (+) and negative (-) terminals of the battery to avoid those terminals from touching each other. Batteries may be short-circuited when piled up or mixed with the other batteries in disorder. Dispose in accordance with applicable federal, state and local regulations.

SECTION 14: Transport information

- When a number of batteries are transported by ship, vehicle and railroad, avoid high temperature and dew condensation.
- Avoid transportation which may cause damage of package.
- Lithium ion batteries are not subject to dangerous goods regulation for the purpose of transportation by the International Maritime Dangerous Goods regulations (IMDG). For Lithium ion batteries, the Watt-hour rating is no more than 20Wh/cell and 100Wh/battery pack can be treated as "non-dangerous goods" by the United Nations Recommendations on the Transport of Dangerous Goods/Special Provision 188, provided that the products are prevented from being short-circuited with each other and are packaged in an appropriate condition which satisfies Packing Group II performance level.
- IATA (International Air Transport Association): Dangerous Goods Regulation.
Packing Instruction 965 (Lithium ion or lithium polymer cells and batteries without electronic equipment)

Section II requirements apply to lithium ion cells with a Watt-hour rating not exceeding 20Wh and lithium ion batteries with a Watt-hour rating not exceeding 100Wh packed in quantities that within the allowance permitted in Section II, Table 965-II.

TABLE 965-II

Contents	Lithium ion cells and/or batteries with a Watt-hour rating of 2.7Wh or less	Lithium ion cells with a Watt-hour rating of more than 2.7Wh but not more than 20Wh	Lithium ion batteries with a Watt-hour rating of more than 2.7Wh but not more than 100Wh
Maximum number of cells/batteries per package	No limit	8 cells	2 Batteries
Maximum net quantity per package	2.5 Kg	N/A	N/A

Lithium ion cells and batteries meeting the requirements in this section are not subject to other additional requirements of these Regulations except for:

- each cell and battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria Part III, subsection 38.3;
- cells and batteries must be manufactured under a quality management program;
- for batteries, The Watt-hour rating must be marked on the outside of the battery case;
- Each package must be capable of withstanding a 1.2m drop test in any orientation without:
 - damage to cells or batteries contained therein;
 - shifting of the contents so as to allow battery to battery (or cell to cell) contact;

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-release of contents.

- Each package must be labeled with a lithium battery handling label.

Section IB requirements apply to lithium ion cells with a Watt-hour rating not exceeding 20Wh and lithium ion batteries with a Watt-hour rating not exceeding 100Wh packed in quantities that exceed the allowance permitted in Section II, Table 965-II.

Quantities of lithium ion cells or batteries that exceed the allowance permitted in Section II, Table 965-II must be assigned to Class 9 and are subject to all of the applicable provisions of Regulation.

Even classified as lithium batteries packed with equipment (UN3481), IATA Dangerous Goods Regulations packing instruction 966 is applied.

Even classified as lithium batteries installed in equipment (UN3481), IATA Dangerous Goods Regulations packing instruction 967 is applied.

SECTION 15: Regulatory information

- IMDG Code: International Maritime Dangerous Goods (IMDG) Code 2014 Edition
- ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2015-2016 Edition
- IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations 56th Edition

SECTION 16: Other information

The information contained within is provided for your information only. The information and recommendations set forth herein are made in good faith and are believed to be accurate as of the date of preparation. However, our company makes no warranty, either expressed or implied, with respect to this information and disclaims all liability from reliance on it.