Issuing date : May 21, 2015 Revision date : January 22, 2016 SDS # :BA0111-02 Version : 160114

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

#### Product Identifier

Product name:	Lithium Ion Battery NB-CP2LH	
Product Code:	0749C	
Watt-hour rating	29Wh	
Relevant Identified Uses:	Battery for CP printer	

#### Details of the supplier of the safety data sheet

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

Manufacturer: Address: Canon Inc. 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 six US18500GR lithium ion rechargeable cells and control circuit on the PWB.

The cells are connected in 1 parallel string of 6 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 battery.		
Enclosure:	Plastic (PC)		
UN number:	UN3480		

Issuing date : May 21, 2015 Revision date : January 22, 2016

## **SECTION 4: First aid measures**

The product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required. Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing, and call a Eye Contact:

	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**

CECTION 7. Llondling and store

- · 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 safety vent to open, 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 - 20°C to 60°C (- 4°F to 140°F) temperature.		
Disposal:	Dispose in accordance with applicable federal, state and local regulations.		
Caution:	Do not: short circuit, disassemble or expose battery to fire or water.		
	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.		

SDS # :BA0111-02 Version : 160114

Issuing date : May 21, 2015 Revision date : January 22, 2016 SDS # :BA0111-02 Version : 160114

### **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: Local effects: No information as a battery No information as a battery

### SECTION 12: Ecological information

When exhausted battery is buried in the ground, corrosion may be caused on the outer 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 I00Wh/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.

I ABLE 965-II						
	Lithium ion cells and/or	Lithium ion cells with a Watt-hour	Lithium ion batteries with a			
Contents	batteries with a Watt-hour	rating of more than 2.7Wh but	Watt-hour rating of more than			
	rating of 2.7Wh or less	not more than 20Wh	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;

### Issuing date : May 21, 2015 Revision date : January 22, 2016

SDS # :BA0111-02 Version : 160114

-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 57th 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.