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

Product Identifier

Product name:	Lithium Ion Battery BP-A30N
Product Code:	6663C
Watt-hour rating	47Wh
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

For the battery cell, chemical materials are stored in a hermetically sealed metal or metal laminated plastic case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there are no physical hazards such as ignition, explosion and chemical hazards due to leakage of battery contents.

However, if exposed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the gas release vent will be operated. The battery cell case will be breached at the extreme, hazardous materials may be released.

Also, if it is heated strongly by surrounding fires or the like, there is a possibility that irritating or harmful gas may be generated.

· GHS classification: Not available

(This product is outside the scope of GHS system since it's considered as an "article")

Most important hazard and effects

Human health effects:

Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.

Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and stimulation on the skin.

Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and stimulation on the eye.

Especially, substance that causes a strong inflammation of the eyes is contained.

Environmental effects: Since a battery cell remains in the environment, do not throw out it into the environment.

· Specific hazards:

If the electrolyte contacts with water, it will generate detrimental hydrogen fluoride. Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

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SECTION 3: Composition/information on ingredients

Substance or preparation: Preparation

Information about the chemical nature of product: *1

Portion	Material name CAS No.		Concentration range (wt %)	
Positive electrode	Lithium transition metal oxidate (Li[M] _m [O] _n *2)	12190-79-3		
		12031-65-1		
		12057-17-9	20~60	
		182442-95-1		
		207803-51-8		
Positive electrode's base	Aluminum	7429-90-5	1~10	
Negative electrode	Catar	7782-42-5	10~30	
	Carbon	7440-44-0		
Negative electrode's base	ase Copper 744		1~15	
Electrolyte	Ethyl methyl carbonate	623-53-0		
	Diethyl carbonate	105-58-8	5~25	
	Ethylene carbonate	96-49-1		
	Lithium hexafluorophosphate	21324-40-3		
Outer case Aluminum, iron, aluminum laminated plastic		7429-90-5 7439-89-6	1~30	

*1 Not every product includes all of these materials.

*2 The letter M means transition metal and candidates of M are Co, Mn, Ni and Al. One compound includes one or more of these metals and one product includes one or more of the compounds. The letter m and n means the number of atoms.

SECTION 4: First aid measures

Spilled internal cell materials

Inhalation:

Make the victim blow his/her nose, gargle. Seek medical attention if necessary.

Skin contact:

Remove contaminated clothes and shoes immediately. Wash extraneous matter or contact region with soap and plenty of water immediately.

· Eye contact:

Do not rub one's eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

A battery cell and spilled internal cell materials

Ingestion:

Wash out mouth thoroughly. Do not make the victim vomit, unless instructed by medical personnel. Seek medical attention immediately.

SECTION 5: Firefighting measures

• Suitable extinguishing media: Plenty of water, carbon dioxide gas, nitrogen gas, chemical powder fire extinguishing medium and fire foam.

- · Specific hazards: Corrosive gas may be emitted during fire.
- Specific methods of fire-fighting: When the battery burns with other combustibles simultaneously, take fire-extinguishing method which correspond to the combustibles. Extinguish a fire from the windward as much as possible.
- Special protective equipment for firefighters: Refer to Section 8-EXPOSURE CONTROLS / PERSONAL PROTECTION (WHEN THE ELECTROLYTE LEAKS)

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SECTION 6: Accidental release measures

Spilled internal cell materials, such as electrolyte leaked from a battery cell, are carefully dealt with according to the followings.

• Precautions for human body:

Remove spilled materials with protective equipment (refer to Section 8-EXPOSURE CONTROLS / PERSONAL PROTECTION

(WHEN THE ELECTROLYTE LEAKS)). Do not inhale the gas as much as possible. Moreover, avoid touching with as much as possible.

- · Environmental precautions: Do not throw out into the environment.
- · Method of cleaning up: The spilled solids are put into a container. The leaked place is wiped off with dry cloth.

• Prevention of secondary hazards: Avoid re-scattering. Do not bring the collected materials close to fire.

SECTION 7: Handling and storage

Handling suggestions

- · Do not connect the positive terminal to the negative terminal with electrical wire or chain.
- · Avoid polarity reverse connection when installing the battery to an instrument.
- Do not wet the battery with water, seawater, drink or acid; or expose to strong oxidizer.
- · Do not damage or remove the external tube.
- · Keep the battery away from heat and fire.
- Do not disassemble or reconstruct the battery; or solder the battery directly.
- Do not give a mechanical shock or deform.
- Do not use unauthorized charger or other charging method. Terminate charging when the charging process doesn't end within specified time.

Storage

- Do not store the battery with metalware, water, seawater, strong acid or strong oxidizer.
- Make the charge amount less than or equal to 50% then store at -20~40 degree C in a dry (humidity: 45~85%) place. Since deterioration will be faster in the high temperature range than in the low temperature range, so do not keep it in the high temperature range beyond the period that is specified by the seller or owner.
- Use insulative and adequately strong packaging material to prevent short circuit between positive and negative terminal when the packaging breaks during normal handling. Do not use conductive or easy to break packaging material.

SECTION 8: Exposure controls/personal protection(WHEN THE ELECTROLYTE LEAKS)

Control parameters

ACGIH has not been mentioned control parameter of electrolyte.

Personal protective equipment

Respiratory protection:	Respirator with air cylinder, dust mask
Hand protection:	Protective gloves
Eye protection:	Goggles or protective glasses designed to protect against liquid splashes
Skin and body protection:	Working clothes with long sleeve and long trousers

SECTION 9: Physical and chemical properties

Appearance

Physical state:	Solid
Form:	Cylindrical or Prismatic or Pouch (laminated)
Color:	Metallic color or black (without tube if it has tube)
Odor:	No odor

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SECTION 10: Stability and reactivity

- Stability: Normally stable unless a strong shock is applied or heated strongly.
- Possibility of Hazardous reactions: Damage to the container may cause leakage of contents. Contents may leak or ignite due to temperature rise.
- Conditions to avoid: Crushing or deformation, use and storage at 80 degree C or higher or at high humidity. Usage at a voltage or a current outside the rating and external short circuit.
- Incompatible materials: Conductive material such as water or metal pieces. Oxidizing agent such as bleach.
- · Hazardous decomposition products: Irritating or harmful gases are released if a leakage or fire occurs.

SECTION 11: Toxicological information

Organic Electrolyte

· Acute toxicity:

LD₅₀, oral - Rat 2,000mg/kg or more

· Irritating nature: Irritative to skin and eye.

SECTION 12: Ecological information

Persistence/degradability:

Since a battery cell and the internal materials remain in the environment, do not bury or throw out into the environment.

SECTION 13: Disposal considerations

· Recommended methods for safe and environmentally preferred disposal:

Product (waste from residues)

Specified collection or disposal of lithium ion battery is required by the law like as "battery control law" in several nations. Collection or recycle of the battery is mainly imposed on battery's manufacturer or importer in the nations recycle is required.

Contaminated packaging

Neither a container nor packing is contaminated during normal use. When internal materials leaked from a battery cell contaminates, dispose as industrial wastes subject to special control.

SECTION 14: Transport information

In the case of transportation, avoid exposure to high temperature and prevent the formation of any condensation. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Please refer to Section 7-HANDLING AND STORAGE also.

The table mentioned below is applied to only the lithium ion rechargeable battery cell described in Section 1-PRODUCT AND COMPANY IDENTIFICATION.

	LAND TRANSPORT	SEA TRANSPORT	AIR TRANSPORT
	(ADR)	(IMDG / IMO)	(IATA / ICAO)
UN Number *1	3480	3480	3480
Proper Shipping Name *1	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES
	(including lithium ion polymer	(including lithium ion polymer	(including lithium ion polymer
	batteries)	batteries)	batteries)
Hazard Class	9	9	9
Packing Group *2			

*1 UN Number is 3481 in case of the battery is contained in equipment or packed with equipment, and Proper Shipping Name is "lithium ion batteries contained in equipment" or "lithium ion batteries paced with equipment

UN Number is 3556 in case of the battery is contained in vehicle which is only powered by the battery, and Proper Shipping Name is "Vehicle, lithium ion battery powered" (Until the transition deadline of March 31,2025, the old classification UN3171: "Battery-powered vehicle" can be used for transportation.)

*2 Lithium ion rechargeable battery cell is not assigned to packing groups, and the packaging performance level is set out in the applicable packing instruction. Packing group II is often set out.

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SECTION 15: Regulatory information

•Regulations specifically applicable to the product:

Wastes Disposal and Public Cleansing Law [Japan]

Law for Promotion of Effective Utilization of resources [Japan]

US Department of Transportation 49 Code of Federal Regulations [USA]

* About overlapping regulations, please refer to Section 14-TRANSPORT INFOMATION.

SECTION 16: Other information

•This safety data sheet is offered an agency who handles this product to handle it safely.

•The agency should utilize this safety data sheet effectively (put it up, educate person in charge) and take proper measures.

•The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.

•This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Reference

Dangerous Goods Regulations – 66th Edition Effective 1 January 2025: International Air Transport Association (IATA) IMDG Code - 2024 Edition: International Maritime Organization (IMO)

Agreement concerning the International Carriage of Dangerous Goods by Road – 2025(ADR): The United Nations Economic Commission for Europe (UNECE)