

SONY

Sony Energy Devices Corporation

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PRODUCT SAFETY DATA SHEET

IDENTITY	Product Category	: Manganese Dioxide Lithium Battery
	Model Name	: CR2032 SONY
	Nominal Voltage	: 3 V
	Nominal Capacity	: 220 mAh
	Chemical System	: Manganese Dioxide / Lithium
	Design for Recharge	: <input type="checkbox"/> Yes. <input checked="" type="checkbox"/> No.

SECTION MANUFACTURER'S INFORMATION

Manufacturer's Name	: Sony Energy Devices Corporation
Supplier's Name	: Sony Corporation
Supplier's Address	: 1-7-1 Kounan Minato-ku Tokyo 108-0075 Japan
Information Telephone	: Japan +81-3-6748-4005 (Sony Corporation)
Emergency Telephone	: Japan +81-24-958-3811 (Sony Energy Devices Corporation)
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SECTION MATERIAL AND INGREDIENTS INFORMATION

Important Note	The battery should not be opened or burned since the following ingredients contained within, or their discharge or combustion products, could be harmful under some circumstance if exposed.	
	<u>Material or Ingredients</u>	
Cathode	: Manganese Dioxide Graphite	(CAS# 1313-13-9) (CAS# 7782-42-5)
Anode	: Metallic Lithium (0.062g)	(CAS# 7439-93-2)
Electrolyte	: Dimethoxyethane Propylene Carbonate Lithium Perchlorate	(CAS# 110-71-4) (CAS# 108-32-7) (CAS# 7791-03-9)
Others	: Heavy Metals such as Mercury, Cadmium and Lead are not added in the battery.	

SECTION FIRE AND EXPLOSION HAZARD DATA

In case of fire, use Co₂ or dry chemical extinguishers.

SECTION HEALTH HAZARD DATA

Under normal conditions of use, these chemicals are contained in sealed can; therefore, risk of exposure occurs if the battery is swallowed or mechanically abused.

Swallowing	: Ingestion of a battery can be harmful. Contents of an opened battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. In either case, do not induce vomiting nor give food or drink. Seek medical attention immediately. CALL NATIONAL BATTERY INGESTION HOTLINE for advice and follow-up (U.S.A. 202-625-3333) collect, day or night.
Inhalation	: Contents of an opened battery can cause respiratory irritation. Provide fresh air and call a doctor.
Skin Contact	: Contents of an opened battery can cause skin irritation. Wash skin with soap and water.
Eye Contact	: Contents of an opened battery can cause eye irritation. Immediately flush eyes thoroughly with water for at least 15 minutes. Seek medical attention.

SECTION	PRECAUTIONS FOR SAFE HANDLING AND USE
Storage	: Store in a cool, well-ventilated area. Elevated temperatures can result in shortened battery life. Since short circuit can cause burn hazard and leak or explode hazard, do not batteries jumbled in bulk containers.
Handling	: Do not short. Do not mix different type batteries or mix new and old ones together. Do not directly heat, solder or throw into fire. Such unsuitable use can cause leakage, explosion or fire.
Charging	: This battery is not designed for recharging. To do so can cause battery leakage or explosion.
Disposal	: Dispose in accordance with applicable federal state and local regulations.
CAUTION	: MAY EXPLODE OR LEAK IF INSERTED INCORRECTLY, SHORTED, DISASSEMBLED, HEATED, DISPOSED OF IN FIRE, OR RECHARGED. KEEP AWAY FROM SMALL CHILDREN. IF SWALLOWED, PROMPTLY SEE A DOCTOR.

SECTION	TRANSPORTATION
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Lithium batteries containing no more than 1g/cell and 2g/battery of lithium can be treated as “non-dangerous goods” under the United Nations recommendations on the Transport of Dangerous Goods, Special Provision 188, provided that packaging is strong and prevent the products from short-circuit.

With regard to air transport, the International Civil Aviation Organization (ICAO) Special Provision A45 accepts the above UN Recommendation as is; further, the International Air Transport Association (IATA) adopts ICAO Provision A45. In addition, the regulations of the US Department of Transportation for land, sea and air transportation are based on the UN Recommendations.

The Sony Lithium Manganese Dioxide Battery is all applicable to the UN Recommendations/Special Provision 188 (Special Provision A45 of the ICAO Technical Instructions) and treated as “non-dangerous goods”.

SECTION	SPECIAL PROTECTION INFORMATION
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Respiratory Protection	: Not necessary under normal use.
Ventilation	: Not necessary under normal use.
Eye Protection	: Not necessary under normal use.
Protective Gloves	: Not necessary under normal use.

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