



SAFETY DATA SHEET

LED Lights with Lithium Metal Button Cell Batteries Installed

SDS EXEMPTION NOTICE:

The battery powered lights, and the batteries they contain, covered in this document are exempt articles and are not subject to the OSHA Hazard Communication Standard requirement. This sheet is provided as a service to our customers.

Safety Data Sheets (SDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article." OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Because all of our battery powered lighting products and the batteries they contain are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard; hence an OSHA SDS in accordance with the Global Harmonized System (GHS) is not required.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name LED Lights with Non-Rechargeable, Lithium Metal "Button Cell" Batteries Installed

Other means of identification

Synonyms

<u>Part No.</u>	<u>Model Name</u>	<u>IEC Name</u>	<u>Qty. of Batteries</u>
20-02138-()	Critter Light	CR2032	2
20-02140-()	KLIPP Mini Light	CR2032	2
20-02142-()	KLIPP Slide Light	CR2032	2
20-02145-()	KLIPP Multi Tool 1.0	CR1220	2
20-02708	See-Me KLIPP Light 1.0, White	CR2032	2
20-02737	See-Me KLIPP 0.5, Red	CR1220	2
20-02738	See-Me KLIPP 0.5, White	CR1220	2
20-02739	See-Me KLIPP 0.5, Green	CR1220	2
20-02745	Pocket Lantern	CR1220	2
20-02787	See-Me KLIPP Light 1.0, Red	CR2032	2
20-02788	See-Me KLIPP Light 1.0, Green	CR2032	2
20-12139	See-Me Headlamp	CR2025	2
20-1241()	Light a Long, 2 pack	CR1220	2 per light
20-1341-()	EQ3 Headlamp	CR2032	2
20-775-A640	Survival Beast 0.5 Multi-Tool	CR927	2
20-HDL0001-()	Tight Light 1.0 Headlamp	CR2032	2
20-PLL0004-()	See-Me KLIPP Light 1.0	CR2032	2
20-PLL0008-04	See-Me LED Bracelet	CR1616	2
20-SGN0013	See-Me LED Sticker	CR2016	1 per sticker
21-134-()	EQ2 Headlamp	CR2032	2
21-A54-()	Guardian Light	CR2032	2
25-515-()	Tag-It Light	CR2032	2
50-KEY0033-08	LED Key Holder	CR1220	2
50-KEY0118-()	Pop Light	CR2032	2



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Recommended use of the chemical and restrictions on use

Recommended Use Portable, personal lighting for outdoor, camping and emergency use.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name UST Brands
Supplier Address 7720 Philips Highway
Jacksonville
Florida
32256
USA

Supplier Phone Number Phone:904-786-0033
Fax:904-786-0890

Supplier Email sales@ustbrands.com

Emergency Response Information (ERI) telephone number

ERI Provider: INFOTRAC USA or Canada: 1-800-535-5053 International: 001-352-323-3500

2. HAZARDS IDENTIFICATION

CAUTION: LITHIUM BATTERIES INSIDE. This equipment contains Primary Lithium batteries. Do not damage or mishandle the packages. If package is damaged, flammability hazard may exist; batteries must be quarantined, inspected, and repacked.

Comments:

Physical Appearance: The equipment contains one or two small coin shaped batteries. The batteries and its contents present the hazard. The batteries are installed inside the equipment and can be removed if the equipment is opened. The batteries should only be removed by the end-user consumer when it is time to replace.

Battery Description:

IEC Name:	ANSI/NEDA Name	Chemistry	Typical Capacity (mAh)	Nominal Voltage (V)	Lithium Content (g)
CR927	N/A	Lithium-Manganese Dioxide (Li MnO ₂)	30	3.0	0.02
CR1616	5021LC	Lithium-Manganese Dioxide (Li MnO ₂)	50-55	3.0	**
CR1220	5012LC	Lithium-Manganese Dioxide (Li MnO ₂)	35-40	3.0	**
CR2025	5003LC	Lithium-Manganese Dioxide (Li MnO ₂)	160-165	3.0	**
CR2032	5004LC	Lithium-Manganese Dioxide (Li MnO ₂)	225	3.0	**

**REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.



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CAUTION: Batteries inside the equipment can explode or leak if heated, disassembled, shorted, recharged, exposed to fire or high temperature or inserted incorrectly. Do not remove batteries from equipment unless disposing of and replacing. Do not carry batteries loose in your pocket or purse. Keep batteries away from children. If swallowed, consult a physician at once. Under certain misuse conditions and by abusively opening the battery, exposed lithium can react with water or moisture in the air causing potential thermal burns or fire.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

3. COMPOSITION/INFORMATION ON INGREDIENTS

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

4. FIRST AID MEASURES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

5. FIRE-FIGHTING MEASURES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

6. ACCIDENTAL RELEASE MEASURES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

7. HANDLING AND STORAGE

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

9. PHYSICAL AND CHEMICAL PROPERTIES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

10. STABILITY AND REACTIVITY

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

11. TOXICOLOGICAL INFORMATION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

12. ECOLOGICAL INFORMATION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.



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13. DISPOSAL CONSIDERATIONS

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

14. TRANSPORT INFORMATION

Lithium Metal Batteries Contained in Equipment, UN3091

Transportation in the United States (Reference DOT Regulation 49 CFR parts 171-178):

Lithium Metal Batteries Contained in Equipment: UN3091. When packed and labeled in compliance with 49CFR173.185(c) effective Aug 6/2014 (< 1 gram of lithium per cell; < 2 grams of lithium per battery), these items are otherwise "excepted" from the requirements of the regulations.

Transportation Internationally (Reference IATA Dangerous Goods Regulations):

Lithium Metal Batteries Contained in Equipment: UN3091, Packing Instruction 970, Section II (< 1 gram of lithium per cell; < 2 grams of lithium per battery). This regulation applies to "small" lithium batteries contained in equipment that when packed and labeled as described in Packing Instruction 970 are otherwise "excepted" from the requirements of the regulations.

Button Cell Exception:

The equipment covered by this SDS contain "Button Cell Batteries." A "Button Cell Battery" is defined as a small, single cell, round battery with an overall height less than the diameter. They are often referred to as "Coin Cells."

In accordance with the exceptions listed below, packages containing only button cell batteries installed in equipment (including circuit boards) are "excepted" from the hazardous communication requirements of the hazardous materials (dangerous goods) regulations listed. These packages do not need to display any marks or labels or be accompanied by any documents regardless of the quantity of button cell batteries in the package.

Region	Mode of Transport	Regulatory Authority	Regulation	Exceptions for Button Cell Batteries Contained in Equipment
USA	Road, Air, Rail, Marine	DOT	49 CFR Part 171-178	49 CFR 173.185(c)(3)
International	Air	IATA	IATA-DGR (58 th edition, Jan 1/2017)	Packing Instruction 970, Section II
International	Marine	IMO	IMO-IMDG Code (2016 edition)	Special Provision 188

Your selected air, truck, rail or sea carrier may have additional documentation or pre-authorization requirements. Check with your selected carrier before shipping.

15. REGULATORY INFORMATION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.



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16. OTHER INFORMATION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

Disclaimer of Liability: Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this SDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

User Responsibility: This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this SDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.

End of Safety Data Sheet

This product is a consumer product which is used in a hermetically sealed state. So, it is not an object of the SDS system. This document is provided to customers as reference information for the safe handling of the product. The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Panasonic Corporation makes no warranty expressed or implied.

PRODUCT SAFETY DATA SHEET

1 Chemical product and company identification

Name of Product : Manganese dioxide lithium battery
 Name of Company : Panasonic Corporation Automotive & Industrial Systems Company
 Address : 1-1 Matsushita-cho, Moriguchi-city, Osaka, 570-8511, Japan
 Telephone +81-6-6994-4560
 Division : Energy Device Business Division
 Department : Engineering Department
 Emergency Contact : Outside the United States +1-703-527-3887
 (call CHMTREC) in the United States 1-800-424-9300

2 Hazards identification

GHS Classification : Not applicable
 Toxicity : Vapor generated from burning batteries, may irritate eyes, skin and throat.
 Hazard : Electrolyte and lithium metal are inflammable.
 Risk of explosion by fire if batteries are disposed in fire or heated above 100 degrees C.
 Stacking or jumbling batteries may cause external short circuits, heat generation, fire or explosion.

3 Composition/information of ingredients

Component	Material	CAS No.	Content (%)
Positive electrode	Manganese dioxide	1313-13-9	12 - 50
Negative electrode	Lithium metal	7439-93-2	0.5 - 6
Electrolyte	1,2-dimethoxyethane	110-71-4	1.5 - 3.5
	Lithium Perchlorate	7791-03-9	0.2 - 0.7
	Organic electrolyte	-	2.5 - 7
Others (Steel or Plastic parts)	Steel	7439-89-6, 7440-47-3	30 - 85
	Polypropylene	9003-07-0	0.5 - 10

Lithium content per cell

Model Number	Lithium content(g)	Model Number	Lithium content(g)	Model Number	Lithium content(g)	Model Number	Lithium content(g)
CR1025	0.008	CR1612	0.01	CR2012	0.02	CR2412	0.03
		CR1616	0.02	CR2016	0.03	CR2450	0.18
CR1216	0.008	CR1620	0.02	CR2025	0.05	CR2477	0.29
CR1220	0.01	CR1632	0.04	CR2032	0.07		
						CR3032	0.15
				CR2330	0.08		
				CR2354	0.17		

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 about Lithium Battery.
Facilities : Nothing in particular.

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 : Coin 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. However, there is no environmental impact information.

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 0.3g ;
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, Cargo Aircraft only, not more than one package in any single consignment; net quantity per package Max. 2.5kg
		PI 969 Section	Cells packed with equipment
		PI 970 Section	Cells contained in equipment, button cell batteries
Marine transport	IMDG Code	SP 188	

15. Regulatory information

- IATA Dangerous Goods Regulations 59th Edition (IATA DGR)
- IMO International Maritime Dangerous Goods Code 2016 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.

In California only, packages that contain CR lithium coin cells and the Owners/Operating Instructions of products that contain CR lithium coin cells must include the following statement: "Perchlorate Material - special handling may apply,

See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate>".

The effective date for this Perchlorate label is July 1, 2006 for non-consumer products and January 1, 2007 for consumer products.