

Section 1: Company Identification

Company : Premier Farnell plc

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Section 2: Hazardous Ingredients/ Identity Information

IMPORTANT NOTE:

Use under normal conditions, the lithium battery is hermetically sealed.

Ingestion : Swallowing may lead to serious injury or death in as little as 2 hours due to chemical and

potential of the esophagus .IMMDIATELY SEE DOCTOR.: Do not induct vomiting or give

food or drink

Inhalation : Contents of an open battery can cause respiratory irritation.

Skin Contact : Contents of an open battery can cause skin irritation / or chemical burns.

Eye Contact : Contents of an open battery can cause severe irritation and chemical burns.

Important Note: The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

Substance Name/CAS#	PEL (OSHA)	%Weight
Lithium /7439-93-2	None Established	1-8%
Propylene Carbonate/108-32-7	None Established	1-9%
Manganese Dioxide/1313-13-9	5mg/m³ Celling (as Mn)	10%-22%
Dimethoxymethane /110-71-4	None Established	0-6%
Lithium Perchlorate /7791-03-09	None Established	0-3%
Carbon Black /1333-86-4	3.5mg/m³ TWA	0-1%
Dioxolane /646-06-0	None Established	0-8%
Graphite / 7782-42-5	15mg/m³ TWA (total Dust) 5mg/m³ TWA (respirable fraction)	4%
Steel /65997-19-5 Graphite /7782-42-5	None Established	32%
Others	None Established	Balance

Section 3: Physical / Chemical Characteristics

Appearance and Odor, Button or cylindrical shape, odorless

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Section 4: Control Fire Measures

In case of fire, where lithium batteries are present, flood area with water or smother with a Class D fire extinguishant appropriate for lithium metal, such as lith-X. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with water and form hydrogen gas. In a confined space, hydrogen gas can from an explosive mixture. In this situation, smothering agents are recommend. A smothering agent will extinguish burning lithium batteries.

Emergency Responders should wear self-contained breathing apparatus. Burning lithium manganese dioxide battery produce toxic and corrosive lithium hydroxide fumes.

Section 5: Reactivity Data

Stability : Stable Conditions to void : Stable

Incompatibility : Materials to Avoid

Lithium Manganese batteries do not met any of the criteria established in 40 CFR 261.2 for reactivity

Section 6: Health Hazard Data

Route(s) of Entry

Inhalation: N.A.Skin: N.A.Ingestion: N.A.

Health Hazard (Acute and Chronic)/Toxicological information

In case of electrolyte leakage, Skin will be itchy when contaminated with electrolyte.

In contact with electrolyte can cause severe irritation and chemical burns.

Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.

Section 7: First Aid Measures

Ingestion : Swallowing may lead to serious injury or death in as little as 2 hours due to chemical and

potential of the esophagus .IMMDIATELY SEE DOCTOR.: Do not induct vomiting or give

food or drink

Inhalation : Provide fresh air and seek medical attention.

Skin Contact : Remove contaminated clothing and wash skin soap and water. If a chemical burn occurs

of it irritation persists, Seek medical attention.

Eye Contact : Immediately flush eyes thoroughly water for at least 15 minutes, lifting upper and lower

lids, until no evidence of the chemical remains. Seek medical attention.

Section 8: Accidental Release or Spillage

To Clean up leaking batteries:

Ventilation Requirements : Room ventilation may be required in areas where there are open or; leaking batteries.

Respiratory Protection : Avoid exposure to electrolyte fumes from open or leaking batteries.

Eye Protection : Wear safety glasses with side shields if handling an open or leaking battery.

Gloves : Use neoprene or natural rubber gloves if handling an open or leaking battery.

Battery materials should be collected in leak-proof container.

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Section 9: Safety Warning for Swallowed Hazardous

WARNING!

Keep out of reach of children. Swallowing may lead to serious injury or death in as little as 2 hours due to chemical burn and potential perforation of the esophagus. Immediately see doctor or ring LOCAL EMERGENCY CALL. Keep in original package until ready to use. Dispose of used batteries immediately.

Section 10: Handling and Storage

Storage : Store in cool, well ventilated area. Elevated temperature can result in shortened battery

life. In locations that handle large quantities of lithium batteries, such as warehouse,

lithium batteries should be isolated from unnecessary combustible.

Mechanical Containment : If potting or sealing the battery in an airtight or watertight container is required, consult

your NEXcell Battery Co., Ltd. Representative for precautionary suggestions.

Do not obstruct safety release vents on batteries, Encapsulation of batteries will not allow call venting and can cause high

pressure rupture.

Handling : Accidental short circuits for a few seconds will not seriously affect the battery. Prolonged

short circuit will cause the battery to lose energy, generate significant heat and can cause the safety release vent to open. Source of short circuit included jumbled batteries in bulk containers, metal jewellery, metal covered tables or metal belts used for assembly of batteries into devices. Damaging a lithium battery may result in an internal short circuit.

The contents of an open battery. Including a vented battery, when exposed to water, may result in a fire and / or explosion, Crushed or damaged batteries may result in a fire.

If soldering or welding to the battery is required, consult us for proper precaution to prevent seal damage or short circuit.

Charging : This battery is manufactured in a charged state. It is not designed for recharging.

Recharging can cause battery leakage or in some case, high pressure rupture. Inadvertent

charging can occur if a battery is installed backwards.

Section 11: Exposure control / Person protection

Ventilation Requirements : N.A
Respiratory Protection : N.A
Eyes Protection : N.A.
Gloves : N.A.

Section 12: Ecological Information

N.A.

Section 13: Disposal Method

Dispose of batteries according to government regulations

Section 14: Regulatory Information

Special requirement be according to the local regulations.

pro-ELEC



Section 15: Transport Information

The batteries in all forms of transportation (e.g. Truck, air or sea) must be packaged in safe and responsible manner. Regulatory concern form all agencies for safe packing require that batteries be packaged in a manner that prevent short circuits and be contained in (Strong Carton/ Packaging) that prevents spillage of contents.

The lithium button cell are exempt from the classification as dangerous goods as they meet the requirements of the special provisions listed below (Essentially, they are properly packaged and labeled. Contains less than 1 gram of lithium and pass the tests defined in UN model regulation section 38.3)

Regulatory Parties	Special Provisions	
ADR	188,230,310,636,656	
IMDG	188,230,310,957	
UN	UN3090, UN3091	
US DOT	29, A54, A101, A100	
IATA, ICAO	Packing Instruction 968-970 (section II)	

Ref: Summary of packing Instruction (2018 IATA Dangerous Goods Regulations 59th edition)the minimum requirements necessary to transport as non-restricted goods are as follow:

- 1. For a lithium metal /lithium alloy cell, the lithium content is not more than 1g.
- 2. Each package must be displayed a battery handling label.(Tel no and emergency call must be printed on label)
- 3. Each consignment must be accompanied with a declaration of non-dangerous goods document.
- 4. The Original package must be capable of with standard a 1.2M drop test.

Lithium Content:

Model No	Lithium/g
PSG91082	Less than 0.072
PSG91083	Less than 0.096
PSG91084	Less than 0.104
PSG91085	Less than 0.336
PSG91086	Less than 0.496

Section 16: Other Information:

None.

Part Number
PSG91082
PSG91083
PSG91084
PSG91085
PSG91086

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