



Pony Testing International Group

# MSDS Report

Sample Name  
& Model

Lithium Manganese Button Battery CR2025

3.0V 150mAh 0.45Wh

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## 声 明 Statement

1. 本证明/报告的结论仅对委托方所送样品负责。  
The conclusion of the certificate/report is responsible for the provided sample only.
2. 委托方必须如实提供样品, 申报和声明资料, 并保证与实际相符, 否则由委托方承担由此导致的全部后果和责任。  
The applicant shall provide accurately and truly the description and statement of the sample, shall guarantee to match the sample and real situation which they provided and declared. Otherwise the application shall bear any relevant consequences and responsibility.
3. 如委托方提供的样品及相关资料存在虚假、伪造等情形, 所造成的全部后果和责任由委托方承担。  
In case the sample and documents provided involved in the situation of fake and forgery, any consequences and responsibility caused by this shall be undertaken by applicant.
4. 本证明/报告私自转让、盗用、冒用、涂改, 未经本单位批准的复制(全文复制除外)或以其它任何形式的篡改均属无效, 本单位将对上述行为追究其相应的法律责任。  
The certificate/report is invalid in ease of illegal transfer, embezzlement, imposture, modification or any altering, reproducing except in full, without approval of PONY. PONY shall investigate and affix the applicant's legal liability accordingly.
5. 本证明/报告不考虑国家及经营人差异。  
The certificate/report takes no account of the differences of countries and applicants.
6. 本单位有权在完成证明/报告后处理委托方所送样品。  
PONY has the right to dispose the provided sample after approval of the certificate/report.

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### ▲ 防伪说明:

- (1) 报告编号是唯一的;
  - (2) 报告采用特制防伪纸张印制, 纸张表面带有“PONY”防伪纹路, 该防伪纹路不支持复印, 即复制件不会带有“PONY”防伪纹路;
  - (3) 报告采用的防伪纸张内部亦加带有高科技“PONY”防伪水印, 只有在验钞机等紫外线照射下方可显出无色荧光防伪字样。
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## Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.9 (GHS)

### Section 1 - Chemical Product and Company Identification

#### Chemical Product Identification

**Sample Name:** Lithium Manganese Button Battery 3.0V 150mAh 0.45Wh

**Sample Model:** CR2025

**APPLICATIONS:** For Stock No. SN09125 TOWER FAN WITH REMOTE CONTROL

**SUPPLIER:** Draper Tools Ltd

Hursley Road  
Chandlers Ford  
Eastleigh  
Hampshire  
SO53 1YF

Draper Helpline +44 (0) 2380 494344  
Opening hours 8:30-17:00 Monday – Friday.

### Section 2 - Hazards Identification

**Emergency overview:** This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

#### Classification according to GHS

- Acute toxicity, oral (4)
- Acute toxicity, inhalation (4)
- Skin corrosion/irritation (1A-1C)
- Serious eye damage/eye irritation (1)
- Sensitisation, skin (1, 1A, 1B)
- Carcinogenicity (2)
- Specific target organ toxicity, single exposure; Respiratory tract irritation (3)
- Specific target organ toxicity, repeated exposure (2)

#### Label elements

**Hazard pictogram(s):**



**Signal word:**

Danger

**Hazard statement(s):**

北京实验基地 (010) 87503500	西安测试基地 (029) 86622725	内蒙测试基地 (0471) 3591511	武汉测试基地 (027) 87599712
南京测试基地 (025) 86656565	成都测试基地 (028) 86656565	天津测试基地 (022) 86656565	杭州测试基地 (0571) 86656565
北京分公司 (010) 86656565	烟台测试基地 (0535) 86656565	深圳测试基地 (0755) 86656565	福州测试基地 (0591) 86656565
成都分公司 (028) 86656565	柳州测试基地 (0772) 86656565	上海测试基地 (021) 86656565	宁波测试基地 (0574) 86656565
青岛分公司 (0532) 86656565	太原测试基地 (0351) 86656565	长沙测试基地 (0731) 86656565	厦门测试基地 (0592) 86656565
天津分公司 (022) 86656565	西安分公司 (029) 86656565	昆明测试基地 (0871) 86656565	海口测试基地 (0898) 86656565
大连分公司 (0411) 86656565	西安分公司 (029) 86656565	贵阳测试基地 (0851) 86656565	拉萨测试基地 (0891) 86656565
太原分公司 (0351) 86656565	西安分公司 (029) 86656565	银川测试基地 (0951) 86656565	西宁测试基地 (0971) 86656565
大庆分公司 (0459) 86656565	西安分公司 (029) 86656565	乌鲁木齐测试基地 (0991) 86656565	呼和浩特测试基地 (0471) 86656565
长春分公司 (0431) 86656565	西安分公司 (029) 86656565	石嘴山测试基地 (0902) 86656565	包头测试基地 (0472) 86656565
沈阳分公司 (024) 86656565	西安分公司 (029) 86656565	中卫测试基地 (0954) 86656565	鄂尔多斯测试基地 (0477) 86656565
哈尔滨分公司 (0451) 86656565	西安分公司 (029) 86656565	固原测试基地 (0953) 86656565	呼伦贝尔测试基地 (0470) 86656565
大庆分公司 (0459) 86656565	西安分公司 (029) 86656565	海拉尔测试基地 (0470) 86656565	兴安盟测试基地 (0479) 86656565
大庆分公司 (0459) 86656565	西安分公司 (029) 86656565	通辽测试基地 (0475) 86656565	锡林郭勒测试基地 (0479) 86656565
大庆分公司 (0459) 86656565	西安分公司 (029) 86656565	兴安盟测试基地 (0479) 86656565	乌兰察布测试基地 (0474) 86656565
大庆分公司 (0459) 86656565	西安分公司 (029) 86656565	锡林郭勒测试基地 (0479) 86656565	阿拉善盟测试基地 (0478) 86656565
大庆分公司 (0459) 86656565	西安分公司 (029) 86656565	阿拉善盟测试基地 (0478) 86656565	鄂尔多斯测试基地 (0477) 86656565
大庆分公司 (0459) 86656565	西安分公司 (029) 86656565	鄂尔多斯测试基地 (0477) 86656565	包头测试基地 (0472) 86656565
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## Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Manganese dioxide	1313-13-9	215-202-6	32.22
Lithium	7439-93-2	231-102-5	1.87
Iron	7439-89-6	231-096-4	56.48
1,2-Propanediolcyclic carbonate	108-32-7	203-572-1	3.71
1,3-Dioxolane	646-06-0	646-06-0	3.88
Lithium Perchlorate	7791-03-9	232-237-2	0.84

## Section 4 - First Aid Measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Personal protective equipment for first-aid responders: No data available.

Most important symptoms/effects, acute and delayed: No data available.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

## Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Small Fire: Dry chemical, soda ash, lime or sand. Large Fire: DRY sand, dry chemical, soda ash or



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lime or withdraw from area and let fire burn. Move containers from fire area if you can do it without risk.

**Unsuitable extinguishing media:**

Water or foam.

**Specific Hazards arising from the chemical:**

Special hazards arising from the substance or mixture

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Produce flammable gases on contact with water. May ignite on contact with water or moist air. Some react vigorously or explosively on contact with water. May be ignited by heat, sparks or flames. May re-ignite after fire is extinguished. Runoff may create fire or explosion hazard.

**Specific protective actions for fire-fighters:**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

**Section 6 - Accidental Release Measures**

**Personal precautions:**

As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate the area before entry.

**Protective equipment:**

No data available.

**Emergency procedures:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Stop leak if you can do it without risk. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. DO NOT GET WATER on spilled substance or inside containers. Small Spill: Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Dike for later disposal; do not apply water unless directed to do so. Powder Spill: Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

**Environmental precautions:**

Do not allow material to be released to the environment without proper governmental permits.

**Methods and materials for containment and cleaning up:**

For all waste handling must refer to United Nations, National and Local Regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Table with 4 columns of contact information in Chinese, including phone numbers for various regional offices.

## Section 7 - Handling and Storage

### Precautions for safe handling:

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

### Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

CAS No.	ACGIH	NIOSH	OSHA
1313-13-9	N/A	N/A	N/A
7439-93-2	N/A	N/A	N/A
7439-89-6	N/A	N/A	N/A
108-32-7	N/A	N/A	N/A
646-06-0	N/A	N/A	N/A
7791-03-9	N/A	N/A	N/A

### Appropriate engineering controls:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

### Personal Protective Equipment:

**Respiratory protection:** Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

**Hand Protection:** Wear appropriate protective gloves to reduce skin contact.

**Eye Protection:** Wear safety goggles or eye protection combined with respiratory protection.

**Skin and Body Protection:** Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.



## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

Colour:	Silver.
Physical State:	Button.
Odour:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Flammability:	Not available.
Solubility:	Not available.
Lower and upper explosion limit/flammability limit:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Kinematic viscosity:	Not available.
Partition coefficient: n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	Not available.
Relative vapour density:	Not available.
Particle characteristics:	Not available.
Other information:	
Voltage	3.0V
Electric capacity	150mAh
Aggregate lithium content	0.04g

## Section 10 - Stability and Reactivity

- Reactivity: No data available.
- Chemical stability: Stable.
- Possibility of hazardous reactions: No data available.
- Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.
- Incompatible materials: Oxidizing agents, acid base.
- Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide fumes.



## Section 11 - Toxicological Information

### Acute Toxicity:

CAS No.	LC50/LD50
1313-13-9	No data available.
7439-93-2	No data available.
7439-89-6	No data available.
108-32-7	LD50 Rat (oral): ≥29000mg/kg; LD50 rabbits (Dermal): >20000mg/kg
646-06-0	No data available.
7791-03-9	No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or Skin sensitization: No data available.

Germ Cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure: No data available.

Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: No data available.

Eye: No data available.

Skin: No data available.

Ingestion: No data available.

Inhalation: No data available.

## Section 12 - Ecological Information

### Ecological Toxicity:

CAS# 108-32-7

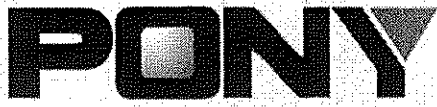
LC50: >1000mg/L - Fish (Carp) - 96h;

EC50: >1000mg/L - Crustaceans (Daphnia magna) - 48h;

EC50: >900mg/L - Algae (Scenedesmus subspicatus) - 72h

Persistence and degradability: No data available.





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According to the Packing Instruction 968 section IB of IATA DGR 63<sup>rd</sup> Edition for transportation, Cargo aircraft only.

According to the special provision 188 of IMDG (40-20), the goods are not subject to other provision of this code.

Separate batteries to prevent short-circuiting, and they should be packed in strong package during transport. Lithium cell or battery should incorporate a safety venting device or be designed to prevent a violent rupture under normal transport conditions. Keep away from high temperature and open flames.

Transport Fashion: By air, by sea.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Table with 5 columns: CAS No., TSCA, IECSC, DSL/NDSL, EINECS/ ELINCS/ NLP. Rows include CAS numbers like 1313-13-9, 7439-93-2, 7439-89-6, 108-32-7, 646-06-0, and 7791-03-9.

Section 16 - Other Information

Issue Date: 2022-01-07

Issue Department: Technical department

Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials



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Report No.:

Date: 2022-01-07 Page 10 of 10

may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-short time exposure limit);

PC-TWA: (Permissible concentration-time weighted average);

IARC: (International Agency for Research on Cancer);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

IECSC: (Inventory of Existing Chemical Substances in China);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

TOC: (Total Organic Carbon);

TSCA: (Toxic Substances Control Act of USA);

DSL: (the Domestic Substances List of Canada);

NDSL: (the Non-domestic Substances List of Canada)

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

\*\*\*End of report\*\*\*



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Date: 2022-01-07 Page 10 of 10

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