SAFETY DATA SHEET

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

PRODUCT NAME: LITHIUM MANAGANESE BUTTON BATTERY
CR2025

APPLICATIONS: For Stock No.09125 TOWER FAN 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.
www.drapertools.com

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: Dusts and mists (4)
8kin corrosion/irritation (1A, 18, 1 C)
Specific target organ toxicity, repeated exposure (2)
Hazardous to the aquatic environment, long-term hazard (2)

Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):

H302 Harmful if swallowed
H332 Harmful if inhaled
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H317 May cause an allergic skin reaction
H351 Suspected of causing cancer
H335 May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s):

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dusts or mists.
P264 Wash skin and clothing thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response:

P330 Rinse mouth.

P304 + P340 IF INHALEO: Remove person to fresh air and keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P321 Specific treatment (See additional emergency instructions).

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P351 IF ON SKIN: Wash with plenty of water.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

Other hazards

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

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: Firefighting measures

Suitable extinguishing media:

Small Fire: Dry chemical, soda ash, lime or sand. Large Fire: Dry sand dry chemical. Soda ash or lime or withdraw from area and left fire burn. Move containers from 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 measure

Personal Precautions

As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50meters (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 materials 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 handing 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.

SECTION 7: Handling and storage

Precaut ions for safe handling:

Avoid short circu iting 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 precautiona 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 pointlf reezing 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 limitlflammability limit:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Kinematic viscosity:	Not available.
Partition coefficient: n-octanollwater (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

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: No data available.

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.

Bioaccumulative Potential: No data available

Nobility in Soil: No data available

Other adverse effects: No data available

SECTION 13: Disposal considerations

Disposal methods:

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

UN or ID Number	
IATA	UN3090
IMDG	UN3090
Proper Shipping Name/Description	
IATA	Lithium metal batteries
IMDG	LITHIUM METAL BATTERIES
Class or Div. (Sub Hazard)	
IATA	9
Packing Group	
IATA	N/A
IMDG	N/A
Hazard Label	
IATA	N/A
IMDG	
Environmental hazards	
Marine pollutant:	No
IMDG EmS	F-A, S-I
Special precautions for user	No information available.

Transport information: The Lithium Manganese Button Battery CR2025 has passed the test UN38.3, according to the report ID: MPITI8UL795377U5.

According to the Packing instruction 968 section IB of IATA DGR 63rd 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 evice or be designed to prevent a violent rupture under normal transportation 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

CAS NO.	TSCA	IECSC	DSL/NDSL	EINECS/ELINCS/NLP
1313-13-9	Listed	Listed	Listed DSL	Listed
7439-93-2	Listed	Listed	Listed DSL	Listed
7439-89-6	Listed	Listed	Listed DSL	Listed
108-32-7	Listed	Listed	Listed DSL	Listed
646-06-0	Listed	Listed	Listed DSL	Listed
7791-03-9	Listed	Listed	Listed DSL	Listed

SECTION 16: Other information

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 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: (Sho 时 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 kil l);

LD50: (Lethal dose, 50 percent kill);

EC50: (Median effective concentration);

8CF: (8ioconcentration Factor);

80D: (8iochemical 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 Tran sport Association);

IMDG: (International Maritime Dangerous Goods);

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

--End of report--