

SAFETY DATA SHEET

Product Name: LITHIUM BATTERY

Issue Date: 16/08/2024

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

PRODUCT NAME: LITHIUM BATTERY CR2032
Ratings: 3V 245mAh Lithium content: 0.0735 Weight: 3.1g

APPLICATIONS: For Stock No.
46599 DIGITAL MICROMETER 0-25MM

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 N/A
Classification according to GHS Not a dangerous substance according to GHS
Label elements:
Hazard pictogram(s) Not Applicable
Signal word Not Applicable
Hazard statement(s) Not Applicable
Precautionary statements(s):
Prevention Not Applicable
Response Not Applicable
Disposal Not Applicable
Environmental hazards: No relevant information
Important symptoms: See section 11 for more information

SECTION 3: Composition/information on ingredients

Chemical Composition	CAS No.	Weight (%)
Lithium Perchlorate	7791-03-9	10.3
Manganese dioxide	1313-13-9	58.5
Propylene carbonate	108-32-7	10
Ethylene glycol dimethyl ether	115-10-6	0.3
Polypropylene	9003-07-0	3.6
Nickel	7440-02-0	1.7
Lithium	7439-93-2	6
Aluminium	7429-90-5	9.6

SECTION 4: First aid measures

Eye contact

Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin contact

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation

Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion

Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

SECTION 5: Firefighting measures

Flash Point	N/A
Auto-Ignition Temperature	N/A
Extinguishing Media	H ₂ O, CO ₂
Special Fire-fighting Procedures	Self-contained breathing apparatus

Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents.
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.

SECTION 6: Accidental release measure

Person precautions, Protective equipment and Emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapours to dissipate, avoid skin and eyes contact or inhalation of vapours. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime.

Environment precautions:

Do not allow product to reach sewage system or any water source.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

SECTION 7: Handling and storage

Handling:

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.

Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire.

Do not crush or puncture the battery, or immerse in liquids.

Storage:

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.

Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Other Precautions:

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

SECTION 8: Exposure controls/personal protection

Engineering Controls

Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.

Personal Protective Equipment

Respiratory Protection: Not necessary under normal conditions.

Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery.

Hand protection: Wear suitable gloves if handling an open or leaking battery.

Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.

Other Protective Equipment

Have a safety shower and eye wash fountain readily available in the immediate work area.

Hygiene Measures

Do not eat, drink, or smoke in work area. Maintain good housekeeping.

SECTION 9: Physical and chemical properties

Form	Solid
Colour	Silver
Odour:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Boiling point and boiling range:	Not available.
Flash point:	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Relative density	Not available.
Solubility in Water	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not available.

SECTION 10: Stability and reactivity

Stability

The product is stable under conditions described Section 7

Conditions to Avoid

Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.

Incompatible Materials

Oxidizing agents, acid, base.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

Possibility of Hazardous Reaction

Not Applicable

SECTION 11: Toxicological information

Irritation

Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.

Sensitization

Not Applicable

Neurological Effects

Not Applicable

Teratogenicity

Not Applicable

Reproductive Toxicity

Not Applicable

Mutagenicity (Genetic Effects)

Not Applicable

Toxicologically Synergistic Materials

Not Applicable

SECTION 12: Ecological information

Ecological Toxicity

Not Applicable

Mobility in soil

Not Applicable

Persistence and Degradability

Not Applicable

Bioaccumulation potential

Not Applicable

Other Adverse Effects

Not Applicable

SECTION 13: Disposal considerations

Product disposal recommendation

--

Packaging disposal recommendation

--

SECTION 14: Transport information

Label for conveyance	Lithium Battery Label
UN Number	UN 3090 or UN 3091
Transport hazard class(es)	9
Packing group	N/A
Marine pollutant	No
UN Proper shipping name	Lithium Metal Batteries (including lithium alloy batteries) Lithium Metal Batteries Contained in Equipment (including lithium

	alloy batteries) Lithium Metal Batteries Packed with Equipment (including lithium alloy batteries)
ICAO/IATA	Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 65 th Packing Instructions Section IB of 968 or Section II of 969 ~ 970 appropriately.
IMDG CODE	International Maritime Dangerous Goods Code IMDG CODE (Amdt.41-22)
DOT	Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.
ADR/ ADN	The batteries are not subject to the provisions of United Nations Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3. Applicable as from 1 January 2023.
The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.	

SECTION 15: Regulatory information

Law information

《Dangerous Goods Regulations》

《Recommendation on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous Goods》

《Consumer Product Safety Act》 (CPSA)

《Federal Environmental Pollution Control Act》 (FEPCA)

《Resource Conservation and Recovery Act》 (RCRA)

《European Agreement concerning the International Carriage of Dangerous》

《Regulations concerning the International Carriage of Dangerous》

In according with all Federal, State and local laws.

SECTION 16: Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

--- End of report ---