

SAFETY DATA SHEET

Polymer Lithium Battery

Issue Date: 23/10/2025 Version: 2

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

Product identifier

Product Name: Polymer Lithium Battery
Model: CLY955465
Ratings: 3.7V, 5000mAh, 18.5Wh
Weight: 76.4g

Applications: For: Twin COB LED Rechargeable Work Light (87696)

Details of the supplier of the safety data sheet

Draper Tools Ltd
Hursley Road, Chandlers Ford, Eastleigh
Hampshire SO53 1YF
United Kingdom
www.drapertools.com

Emergency telephone number

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

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 statement(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 cobaltate	12190-79-3	15 - 40
Graphite	7782-42-5	10- 30
Phosphate (1-), hexafluoro-, lithium	21324-40-3	10- 30
Copper	7440-50-8	7-13
Aluminium	7429-90-5	5-10
Nickel	7440-02-0	1-5

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: H₂O, CO₂.

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

Personal 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 with 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 of 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.

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 Applicable
pH	Not Applicable
Melting point/freezing point	Not Applicable
Boiling Point and Boiling range	Not Applicable
Flash Point	Not Applicable
Upper/lower flammability or explosive limits	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Relative density	Not Applicable
Solubility in Water	Not Applicable
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Applicable
Evaporation rate	Not Applicable
Flammability (soil, gas)	Not Applicable
Viscosity	Not Applicable

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	No Data Available
Neurological Effects	No Data Available
Teratogenicity	No Data Available
Reproductive Toxicity	No Data Available
Mutagenicity (Genetic Effects)	No Data Available
Toxicologically Synergistic Materials	No Data Available

SECTION 12: Ecological information

Ecological Toxicity	No Data Available
Mobility in soil	No Data Available
Persistence and Degradability	No Data Available
Bioaccumulation potential	No Data Available
Other Adverse Effects	No Data Available

SECTION 13: Disposal considerations

Product disposal recommendation	Observe local, state and federal laws and regulations.
Packaging disposal recommendation	Disposal must be made according to official regulations.

SECTION 14: Transport information

Label for conveyance	Lithium Battery Label
UN Number	UN 3481
Transport hazard class (es)	9
Packing group	--
Marine pollutant	No
UN Proper shipping name	Lithium-ion Batteries packed with equipment (Including lithium-ion polymer batteries) or Lithium-ion Batteries contained in equipment (Including lithium-ion polymer batteries)

ICAO/IATA	DGR 66 th - Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR Packing Instructions (PI) Section IB of 965 or Section II of 966 967 appropriately.
------------------	--

IMDG CODE	IMDG CODE (Amdt.42-24) - The batteries are not restricted to IMDG Code 2024 Edition (Amdt 42-24) according to special provision 188.
------------------	--

ADR	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 2025.
------------	--

EmS NO.	F-A, S-I
----------------	----------

May be shipped without being declared as Class 9 dangerous goods, when meet to the requirements above.
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 accordance with all Federal, State and local laws.

SECTION 16: Other information

Issue Date: 23/10/2025 Version: 2

The information above is believed to be accurate and represents the best information currently available to us. However, this document makes 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 SDS ***