

SAFETY DATA SHEET

Rechargeable Lithium-ion Battery Pack

Issue Date: 15/11/2025 Version: 2

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

- 1.1 Product identifier:** **Rechargeable Lithium-ion Battery Pack**
Ratings: 18V 4.0Ah 72Wh
Weight: 689.3g
- 1.2 Relevant identified uses:** For 18V Brushless Mini Chain Saw (Stock No. 31872)
- 1.3 Details of Supplier of the safety data sheet:**
Draper Tools Ltd
Hursley Road
Chandlers Ford
Eastleigh
Hampshire
SO53 1YF
www.drapertools.com
- 1.4 Emergency telephone number:** Draper Helpline +44 (0) 2380 494344
Opening hours 8:30-17:00 Monday – Friday.

SECTION 2: Hazards identification

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

SECTION 3: Composition/information on ingredients

Chemical Composition	Chemical Formula	CAS No.	Weight (%)
Lithium cobaltate	LiCoO ₂	12190-79-3	15 - 40
Graphite	C ₂₄ X ₁₂	7782-42-5	10 - 30
Phosphate(1-), hexafluoro-, lithium	LiPF ₆	21324-40-3	10 - 30
Copper	Cu	7440-50-8	7-13
Aluminium	Al	7429-90-5	5-10
Nickel	Ni	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	Not Applicable
Auto-ignition Temperature	Not Applicable
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

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 vapors to dissipate, Avoid skin and eyes contact or inhalation of vapors. 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.

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SECTION 7: Handling and storage

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.

Precautions to be taken in handling and storing

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 circuit 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	Black
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	Product is stable under conditions described in 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	Oxidising agents, alkalis, water.
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	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	UN3481
Transport hazard class(es)	9
Packaging Group	965 or 966 II 967 --
Marine pollutant	No
Proper Shipping name:	Lithium-ion batteries packed with/contained in equipment (Including lithium-ion polymer batteries)
ICAO/IATA	Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 66 th Packing Instructions Section IA of 965 or Section I of 966-967 appropriately.

IMDG CODE	International Maritime Dangerous Goods Code IMDG CODE (Amdt 42-24)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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

Recommendations 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

Occupational Safety and Health Act (OSHA)

Toxic Substance Control Act (TSCA)

Consumer Product Safety Act (CPSA)

Federal Environmental Pollution Control Act (FEPCA)

The Oil Pollution Act (OPA)

Superfund Amendments and Reauthorization Act Title III(302/311/312/313) (SARA)

Resource Conservation and Recovery Act (RCRA)

Safety Drinking Water Act (CWA)

California Proposition 65

Code of Federal Regulations (CFR)

In accordance 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 SDS ***