SAFETY DATA SHEET

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

PRODUCT NAME: Lithium-ion Rechargeable Cell
NCM18650-2600 3.6V 2600mAh 9.36Wh

APPLICATIONS: For: 7.4V Compact Digital Air Compressor (23630)

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

This product is outside of the scope of GHS.

Main Hazards:

Fire or Explosion Hazards:

Lithium-ion battery contains flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (>150°C), when damaged or abused (e.g., mechanical damage or electrical overcharging), may burn rapidly with flare-burning effect and may ignite other batteries in close proximity.

Health Hazards:

Contact with the electrolyte of battery may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases. Fumes may cause dizziness or suffocation.

SECTION 3: Composition/Information on Ingredients

Product name: Lithium-ion Rechargeable Cell NCM18652600 3.6V 2600mAh

Ingredient	Concentration	CAS No.	EC No.
Anode material ($LiNiCoMnO_2$)	47.3%	182442-95-1	695-690-9
Cathode material (Carbon)	26%	7440-44-0	231-153-3
Electrolyte (DMC/EA/EC/$LiPF_6$)	22.3%	616-38-6/140-88	210-478-4/205-4
SUPER P Li	1.4%	1333-86-4	215-609-9
Styrene Butadiene Rubber	1.2%	9003-55-8	618-370-2
Polyvinylidene Fluoride	0.8%	24937-79-9	607-458-6
Carboxymethyl Cellulose	0.4%	9004-32-4	618-378-6
Lithium Carbonate	0.4%	554-13-2	209-062-5

SECTION 4: First Aid Measures

Skin Exposure:

If in connection with the internal materials of battery, remove the contaminated clothing, shoes and socks, immediately flush with plenty of water for at least 20 minutes. Call a physician.

Eye Exposure:

If in contact with the internal materials of battery, lift your eyelids immediately and rinse them with running water for more than 20 minutes. Call a physician.

Inhalation Exposure:

If the internal materials of battery are inhaled, immediately remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.

Oral Exposure:
Do not induce vomiting if the internal materials of battery are swallowed. Call a physician immediately.
Most Important Symptoms/Effects, Acute and Delayed:
No data available.
Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:
No data available.

SECTION 5: Firefighting Measures

Suitable extinguishing media:
Suitable: water spray r regular foam.
Specific hazards arising from the chemical:
May decompose upon combustion to generate irritation, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.
Special protective action for fire-fighters:
Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION 6: Accidental Release Measure

Personal precautions, protective equipment, and emergency procedures
Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to noninvolved personnel should be controlled around the leakage area by roping off. Remove all sources of ignition.
Environmental precautions
Avoid leakage getting into the earth, ditches or waters. Avoid directly releasing the washing waste-water into the environment.
Methods and materials for containment and cleaning up:
If the electrolyte leaks, use soil, sand or other non-combusttible materials to absorb. The leaked batteries and dirty adsorbents should be placed in metal containers.

SECTION 7: Handling and Storage

Precautions for safe handling:
Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and safety gloves. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well wentilated place. Avoid disassembling the battery and reversing battery polarity within the battery assembly. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. If the electrolyte leaks, avoid directly contacting with eyes and skin. Avoid inhalation.
Conditions for safe storage, including any incompatibilities:
Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat and flame.
Incompatibilities: Strong oxidizing agents, combustible materials and corrosives. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION 8: Exposure Controls/Personal Protection

Control parameters:
GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace – Part 1: Chemical Hazardous Agents:
Manganese and its inorganic compounds (calculated as Manganese dioxide): PC-TWA 0.15mg/m^3
Cobalt and its oxides (calculated as Co): PC-TWA 0.05mg/m^3; PC-STEL 0.1 mg/m^3 Remark: G2B;
Sensitization metallic nickel and insoluble nickel compounds: PC-TWA: 1mg/m^3 Remark: G1 (Nickel compounds)
SUPER P Li: Carbon black dust: PC-TWA: 4mg/m^3 (total dust) Remark: G2B
ACGIH:
SUPER P Li: Carbon black: TLV-TWA: 3mg/m^3 (inhalable dust)

Appropriate engineering controls:
Mechanical exhaust required. Safety shower and eye bath.
Individual protection measures:
Eye/face protection:
Wear chemical safety glasses if needed.
Skin protection:
Hand protection: Wear safety gloves.
Body protection: Wear appropriate protective clothing.
Respiratory protection:
Wear government approved respirator if needed.
Thermal hazards:
No data available.
Other protection:
No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION 9: Physical and Chemical Properties

Appearance:	Gray cylinder plastics film shell
Odor:	Odorless
pH value:	8-9
Solubility:	Partial soluble in water
Boiling point, initial boiling point and boiling range:	No data available
Melting/freezing point:	>300°C
Flash point (closed cup):	No data available
Density/Relative density:	No data available
Kinematic viscosity:	No data available
Lower/upper explosion limit/flammability limit:	No data available
Vapour pressure:	No data available
Relative vapor density:	No data available
Partition coefficient: n-octanol/water (leg value):	No data available
autoignition temperature:	No data available
Decomposition temperature:	No data available
Particle characteristics :	No data available
Flammability (solid, gas):	No data available

SECTION 10: Stability and Reactivity

Reactivity:
No data available.
Chemical stability:
Stable under nornal temperatures and pressures.
Possibility of hazardous reactions:
No data available.
Conditions to avoid:
Avoid misoperation, exposure to heat and open flame. Avoid mechanical or electrical abuse and overcharge.
Prevent short circuits and short circuits caused by movement.
Incompatible materials:
Strong oxidizing agents, combustible materials and corrosives.
Hazardous decomposition products:
Carbon oxides, metal oxides, etc.

SECTION 11: Toxicological Information

Acute Toxicity:	No data available
Skin corrosion/irritation:	The electrolyte in the battery causes skin irritation.
Serious eye damage/irritation:	The electrolyte in the battery causes skin irritation.
Respiratory sensitization:	No data available
Carcinogencity:	No data available
Skin sensitization:	No data available
Germ cell mutagenicity:	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 hazards:	No data available

SECTION 12: Ecological Information

Toxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects	No data available

SECTION 13: Disposal Considerations

Disposal methods:

The disposal of discarded battery shall comply with the requirementsof relvant laws, regulations, policies and standards. Contact a licensed professional waste disposal service to dispose of wastes. Used battery being transported for disposal or reclamation should be carefully checked prior to shipment to ensure the intergrity of each battery and its suitability for transport.

SECTION 14: Transport Information

General packaging requirement

1. The cells or batteries must be protected so as to prevent short circuits.
2. The cells or batteries or equipment must be packed in suitable strong outer packaging.
3. If batteries contained in equipment, equipment must be secured against movement within the outer packaging and be packed so as to prevent accidental activation.

UN numbers & Proper Shipping Name

UN 3481_ lithium-ion batteries packed with equipment or
UN 3481_ Lithium-ion batteries contained in equipment

Hazard Class	**Packing Group**	**Packaging requirement**
Air transportation, according to IATA-DGR 66th Edition (Effective 1 January-31 December 2025)		
Not restricted	Strong package	Packing Instruction 966, section II Packing Instruction 967, section II
Maritime transportation, according to IMO IMDG Code (Edition 42-24)		
Not restricted	Strong package	Packing as per sp188; EmS No.: F-A,S-I; Not Marine pollutant
Road transportation, according to ADR-2025		
Not restricted	Strong package	Packing as per sp188
Railway transportation, according to RID-2025		

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SECTION 15: Regulatory Information

Directive 2006/66/EC and 2013/56/EU

The label, disposal and recycling of the battery shall meet the requirements of EU Directive 2006/66/EC and 2013/56/EU.

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SECTION 16: Other Information

This SDS is only compiled for battery and based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. If the battery is used as a component in another products, the information in this SDS may not be applicable. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

*** End of SDS ***