SAFETY DATA SHEET

Report No. LCS180813156ASD

Product Name: Lithium ion Cell

Issue Date: 10-Sep-2018

Section 1- Chemical Product and Company Identification

PRODUCT NAME:

Lithium ion Cell

18650C

APPLICATIONS:

For Stock No.99707 FOLDING WORK LIGHT & POWERBANK

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.

Emergency overview		azards Identification N/A		
Classification according to GHS			dongorous substa	200 0000rdi to 0110
Label elements:	to Gris	NOL a	dangerous substar	nce according to GHS
		No or	-ilahla	
Hazard pictogram(s)		No available		
Signal word		No available No available		
Hazard statement(s)		No av	allable	
Precautionary statement	.(8)	N1	- : t - L L -	
Prevention		No available		
Response		No available		
Disposal		No available		
Environmental hazards:		No relevant information		
Important symptoms:		C. 625 C. of NEW Laboratories 4 1	ection 11 for more	debate and a second of the sec
Sec	tion 3 — Cor CAS No.	nposi	tion Informatio	
Chemical Composition	CAS No.		Weight (%)	Trade Secret
Lithium cobaltate	12190-79-3		15-38	*
Graphite	7782-42-5		10-33	*
Phosphate (1-), Hexafluoro-, lithium	21324-40-3		10-32	*
Copper	7440-50-8		7-11	*
Aluminium	7429-90-5		5-8	*
Nickel	7440-02-0		1-5	*

S	ection 4- First Aid Measures	
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting thupper and lower eyelids. Get medical aid.	
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or short for 15 minutes. Get medical aid.	
Inhalation	Remove from exposure and move to fresh air immediately. Use oxygen i available.	
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.	
Sec	tion 5- Fire Fighting 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 content	
	Carbon monoxide, carbon dioxide, lithium oxide fumes.	

Section 6- Accidental Release Measures

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 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 off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

out of training.		
Se	ction 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 hig 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- E	xposure 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 batter Hand protection: Wear suitable gloves if handling an open or leaking batter Eye Protection: Not necessary under normal conditions, Wear safety glasse 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	9- Physical and Chemical Properties	
Form	Solid	
Color	Purple	
Odour	No available	
pH	No available	

Melting point/freezing point	No available	
Boiling Point and Boiling range	No available	
Flash Point	No available	
Upper/lower flammability or explosive limits	No available	
Vapor Pressure	No available	
Vapor Density	No available	
Relative density	No available	
Solubility in Water	No available	
Auto-ignition temperature	No available	
Decomposition temperature	No available	
Evaporation rate	No available	
Flammability (soil, gas)	No available	
Viscosity	No available	
Se	ction 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 Available	
Sect	ion 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 Available	
Neurological Effects	Not Available	
Teratogenicity	Not Available	
Reproductive Toxicity	Not Available	

Mutagenicity (Genetic Effects)	Not Available	
Toxicologically Synergistic Materials	Not Available	
Sec	ction 12- Ecological Information	
Ecological Toxicity	Not Available	
Mobility in soil	Not Available	
Persistence and Degradability	Not Available	
Bioaccumulation potential	Not Available	
Other Adverse Effects	Not Available	
Seci	tion 13- Disposal Considerations	
Product disposal recommendation	Observe local, state and federal laws and regulations.	
Uncleaned packaging recommendation	Disposal must be made according to official regulations	
Sed	tion 14 – Transport Information	
Label for conveyance	Lithium Battery Label	
UN Number	UN 3480 or UN 3481	
Transport hazard class(es)	9	
Packing group	M-F	
Marine pollutant	No	
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries)	
	Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)	
Transport information:		

Transport information:

Lithium ion Cell (Sample Model: 18650C) is tested and has passed in accordance with UN manual of Tests and Criteria, Part III, subsection 38.3.

The goods shall be complied with the requirements of Section IB~II of Packing Instruction 965 or of Section II of Packing Instruction 966 967 of 59th DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt. 38-16).

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.

Transport Fashion: By air, by sea, by railway, by road.

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》

《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 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, concorde 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.