



SAFETY DATA SHEET

Version 3

Revision date: 4/5/22

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

16254 Stormforce Lithium-ion rechargeable cell LY699
10.8V, 1.5Ah, 16.2Wh

1.2 Relevant Identified Uses

Power source for StormForce cordless power tools

1.3 Details of the Supplier of the Safety Data Sheet

Company name: Draper Tools Ltd
Address: Hursley Road, Chandler's Ford
Eastleigh, Hampshire, SO53 1YF
Telephone: +44 (0) 23 80266355
Email: sales@drapertools.com
Contact person: Customer Service
Website: www.drapertools.com

1.4 Emergency Telephone Number

+44 (0) 23 80266355 (not 24hrs)

2. Hazards Identification

Health Hazards (Acute and Chronic):

These chemicals are contained in a sealed foil. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte with skin and eyes should be avoided.

Sign/Symptoms of Exposure:

A shorted battery can cause thermal and chemical burns upon contact with the skin. Maybe a reproductive hazard.

These products are classified as Articles under REACH and are not subject to the requirements for information in the Supply Chain (Safety Data Sheets and Labels). While batteries may release hazardous substances if damaged, this is not an intended release as defined under REACH. Batteries are not classified as hazardous under the CLP.

The following information is provided to assist in the safe use of our products.

CAUTION! Battery can explode or leak if heated, disassembled, shorted, recharged, exposed to fire or high temperature or inserted incorrectly. Keep in original package until ready to use. Do not carry batteries loose in your pocket or purse. Keep batteries away from children. If swallowed, consult a physician at once.

Under certain misuse conditions and by abusively opening the battery, exposed lithium can react with water or moisture in the air causing potential thermal burns or fire.

3. Composition Information on Ingredients

Chemical Name	CAS No.	Percent Content
Lithium nickel manganese cobalt ($\text{LiNi}_x\text{Co}_y\text{Mn}_{1-x-y}\text{O}_2$)	346417-97-8	<28%
Graphite (C)	7782-42-5	<15%
Poly Vinylidene Fluoride (PVDF)	24937-79-9	<2%
Ethylene carbonate	96-49-1	<4%
Dimethyl carbonate	616-38-6	<4%
Lithium hexafluorophosphate (LiPF_6)	21324-40-3	<3%

4. First Aid Measures

General Advice:

The chemicals in this product are contained in a sealed package. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

Eye Contact:

Flush eyes with plenty of water for at 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:

Move to a well-ventilated area immediately. Use oxygen if available.

Ingestion:

Not applicable.

4. First Aid Measures

Note to Physician:

Published reports recommend removal from the oesophagus is performed endoscopically (under direct visualisation). Batteries beyond the oesophagus need not be retrieved unless there are signs of injury to the GI tract or a large diameter battery fails to pass the pylorus. If asymptomatic, follow-up x-rays are necessary only to

confirm the passage of larger batteries. Confirmation by stool inspection is preferable under most circumstances. Potential leakage of less than 50 milligrams of dimethoxymethane and propylene carbonate. Dimethoxymethane rapidly evaporates. Do not give ipecac. Deficient atmosphere (less than 18% oxygen) may affect the heart and nervous system.

5. Fire Fighting Measures

Fire and Explosion Hazards:

Batteries may burst and release hazardous decomposition products when exposed to fire or extreme heat.

Extinguishing Media:

CO_2

Special Fire-Fighting Procedures:

Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

Cells may vent when subjected to excessive heat, exposing battery contents.

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide, lithium oxide fumes.

6. Accidental Release Measures

Steps to be Taken in the Event That Material is Released or Spilled:

If the battery material is released, remove personnel from the area and allow the battery to cool and vapours to dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, dispose of it in a plastic bag and put it into a steel can. Avoid skin and eye contact or inhalation of vapours. Remove spilled liquid with absorbent and incinerate.

Waste Disposal Method:

It is recommended to discharge the battery fully. Do not incinerate or dispose of the battery in general waste or abandon it in the environment. Most local Authorities provide disposal facilities.

7. Handling and storage

The battery should not be opened, destroyed, or incinerated as it may leak or rupture and release harmful materials into the environment.

Do not short-circuit the terminals, over charge the battery, force it to over-discharge or throw it into fire. Do not crush or puncture the battery or immerse it in liquids.

Precautions to be taken in Handling and Storing:

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

Do not place the battery near heating equipment and do not expose it to direct sunlight for extended periods.

Other Precautions:

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

Storage:

Store batteries in a dry place at normal room temperature.

8. Exposure Controls/Personal Protection

Exposure Limits:

No exposure to the battery components should occur during normal use.

Ventilation:

Not necessary under conditions of normal use.

Respiratory Protection:

In the event of the of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

Skin Protection:

None required for normal use. Use butyl rubber gloves when handling leaking batteries.

Eye Protection:

None required for normal use. Wear safety goggles when handling leaking batteries.

Protective Gloves:

Not required.

Other Protective Clothing or Equipment:

Not necessary under conditions of normal use.

Personal Protection is recommended for venting battery:

Respiratory protection, protective gloves, protective clothing and safety glasses with side shields.

9. Physical and Chemical Properties

Appearance and Odour:	Prismatic cell - no odour.	Flash Point:	Not Applicable
Water Solubility:	Insoluble		

10. Stability and Reactivity

Stability:	Stable	Hazardous Decomposition Products:	Not Applicable
Forbidden Conditions:	Heating, mechanical abuse and electrical abuse	Hazardous Polymerisation:	Not Applicable

11. Toxicological Information

Potential Health Effects:

The chemicals in this product are contained in a sealed package. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

Eye Contact:

Contact with battery contents may cause irritation.

Skin Contact:

Contact with battery contents may cause irritation.

Inhalation:

Inhalation of vapours or fumes released due to heat or a large number of leaking batteries may cause respiratory and eye irritation.

Ingestion:

Seek immediate medical advice. Batteries lodged in the oesophagus should be removed immediately as leakage, caustic burns and package perforation can occur as little as two hours after ingestion. Irritation to the internal/ external mouth areas may occur following exposure to a leaking battery.

12. Ecological Information

Normal use or correct disposal does not present environmental hazards. When it is disposed of, keep the battery away from water courses.

13. Disposal Considerations

If batteries are still fully charged or only partially discharged, they should be considered as reactive hazardous waste because of significant amounts of unreacted or unconsumed lithium remaining in the spent battery. The battery must be neutralised through an approved secondary treatment facility prior to disposal

as hazardous waste. Recycling of batteries can be performed in authorised facilities by a licensed waste carrier.

Lithium-ion cell batteries are labelled in compliance with the EU Battery Directive 2006/66/EC.

14. Transport Information

Lithium-ion batteries containing no more than 1.5g/cell and 8g/battery pack of lithium, that are also no greater than 20Wh/cell and 100Wh/battery pack can be treated as "Non-Dangerous Goods" under the United Nations Recommendations on the Transport of Dangerous Goods, Special Provision 188, provided packaging is strong and prevents the products from short-circuiting.

For transportation the following Regulations are cited and have been considered:

- The international Civil Aviation Organisation (ICAO) Technical Instructions (2021-2022) edition)
- The international Air Transport Association (IATA) Dangerous Goods Regulations (63th Edition 2022

- The International Maritime Dangerous Goods (IMDG) Code (2020 Edition) Special Provision 188
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium Batteries, 5th, 6th, 7th Revised Edition
- UN No.3480

Products are properly classified, described, packaged, marked and labelled and are in proper condition for transportation according to all the applicable International Regulations. They have been tested to the requirements in accordance with UN recommendations (T1-T8) on the Transport of Dangerous Goods Regulations and can be treated as "Non Dangerous Goods"

15. Regulatory Information

- The international Civil Aviation Organisation (ICAO) Technical Instructions (2021-2022) edition)
- The international Air Transport Association (IATA) Dangerous Goods Regulations (63th Edition 2022
- The International Maritime Dangerous Goods (IMDG) Code (2020 Edition)

- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium Batteries, 5th, 6th, 7th Revised Edition
- UN No.3480

16. Other Information

Details given in this document are believed to be correct at the time of completion. Whilst proper care has been

taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.