Product Name: Rechargeable Li-ion Cell

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

PRODUCT NAME: Rechargeable Li-ion Cell ICR18650 3.6V 1.5Ah 5.4Wh

APPLICATIONS: For Stock No. 70308 12V LI-ION BATTERY 1.5Ah

70256 12V COMBI DRILL 1.5Ah BATTERY

70257 12V COMBI DRILL & IMPACT DRIVER 1.5Ah BATTERY

Issue Date: 14/10/2024 Version: 2

70328 12V DRILL DRIVER 1.5Ah BATTERY

70332 12V IMPACT DRIVER 1/4" Hex. 1.5Ah BATTERY19392 12V OSC M/TOOL KIT 33PCS 1.5Ah BATTERY

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

Hazards Identification:

Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within, or their ingredients could be harmful.

Primary Route (s) of Exposure:

Inhalation, ingestion, Skin contact and Eye contact.

Potential Health Effects:

Inhalation: Vapours or mists from a ruptured battery may cause respiratory irritation.

Ingestion: The battery ingredients contained within, or their ingredients products can cause serious chemical burns of mouth, oesophagus, and gastrointestinal tract.

Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye.

SECTION 3: Composition/information on ingredients

Chemical Name	CAS No.	Concentration or concentration ranges (%)
Lithium nickel manganese cobalt	346417-97-8	30.2
oxide (LiNixCoyMn1-x-yO2)		
Graphite	7782-42-5	15.7
Polyvinylidene Fluoride (PVDF)	24937-79-9	0.7
Ethylene carbonate (EC)	96-49-1	4.7
Dimethyl carbonate (DMC)	616-38-6	4.7
Lithium	21324-40-3	1.3
Hexafluorophosphate (LiPF6)		
Copper	7440-50-8	12.8
Aluminium	7429-90-5	7.0
Can	7439-89-6	17.4
Other materials	N/A	5.5

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

SECTION 4: First aid measures

Inhalation

Remove source of contamination or move victim to fresh air. Obtain medical advice.

Ingestion

Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time.

Skin contact

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Eve contact

Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.

SECTION 5: Firefighting measures

Characteristics of Hazard

Toxic fumes, gases or vapours may evolve on burning.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, lithium oxide fumes and so on.

Fire-extinguishing Methods and Extinguishing Media

Please use water, dry sand and other proper fire extinguishing media.

Attention in Fire-extinguishing

The firemen should put on anti-gas masks and full fire-fighting suits.

SECTION 6: Accidental release measure

Personal Precautions, protective equipment, and emergency procedures

Restrict access to area until completion of clean-up.

Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.

Environmental Precautions

Prevent material from contaminating soil and from entering sewers or waterways.

Methods and materials for Containment

Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.

Methods and materials for cleaning up

Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

SECTION 7: Handling and storage

Handling

Don't handing the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery.

Storage

If the battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the battery periodically.

Long period storage: 25±5°C, 60±25%R.H

Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

Keep out of reach of children.

Do not expose the battery to heat or fire. Avoid storage in direct sunlight.

Do not store together with oxidizing and acidic materials.

SECTION 8: Exposure controls/personal protection

Engineering Controls

No engineering controls are required for handling batteries that have not been damaged. Personal protective equipment for damaged batteries should include chemical resistant gloves and safety glasses.

Personal Protective Equipment

Respiratory Protection: in case 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. Not necessary under conditions of normal use.

Protective Gloves: Not necessary under conditions of normal use.

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 glass with side shields.

SECTION 9: Physical and chemical properties

Appearance: Blue
Physical state: Solid

Form: Approximate Cylinder Melting Point °C: >300°C

Odor: Odorless

Solubility: Partial soluble in water

SECTION 10: Stability and reactivity

Stability: Stable under normal temperature and pressure.

Conditions to Avoid

Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.

Hazardous Decomposition Products

Toxic Fumes, and may form peroxides.

Possibility of Hazardous Reaction

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

SECTION 11: Toxicological information

Irritation

In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and s kin.

Sensitization

Not applicable.

Reproductive Toxicity

Not applicable.

Toxicologically Synergistic Materials

Not applicable.

SECTION 12: Ecological information

General note

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity

Not applicable.

Mobility in soil

Not applicable.

Persistence and Degradability

Not applicable.

SECTION 13: Disposal considerations

Waste Treatment

Recycle or dispose of in accordance with government, state & local regulations.

Attention for Waste Treatment

Deserted batteries couldn't be treated as ordinary trash, Couldn't be thrown into fire or placed in high tem perature, Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

SECTION 14: Transport information

The battery shall be passed the test items of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" section 38.3 and meet the requirements of UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, model Regulations"

The battery shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.

The package must be handled with care and that a flammability hazard exists if the package is damaged.

With regard to transport, the following regulations are cited and considered:

- -The international Civil Aviation Organization (ICAO) Technical Instructions.
- -The international Air transport Association (IATA) Dangerous Goods Regulations.

The battery can be shipped by air in according to PACKING INSTRUCTION 965 Section IB, or PACKING INSTRUCTION $966 \sim 967$ Section II of the 2023 IATA Dangerous Goods regulations 64th Edition.

UN number: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or Not applicable (PI966 ∽ 967 Section II) UN Packing Group: Not applicable.

-The international Maritime Dangerous Goods (IMDG) Code.

UN number: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN Classification (Transport hazard class): Not applicable.

UN Packing Group: Not applicable

The batter y is not restricted according to IMO IMDG Code (inc. Amendment 40-20) Special Provision188.

SECTION 15: Regulatory information

International Civil Aviation Organization (ICAO) Technical Instructions

1.Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.

2.Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.

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 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 MSDS ***