SAFETY DATA SHEET

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

PRODUCT NAME: Battery Pack
20V 2.0A 40Wh

APPLICATIONS: For Stock No. 03359 D20 20V Grease Gun Kit 2.0Ah Battery
04709 D20 20V Grease Gun Kit 2.0Ah Battery

SUPPLIER: **Draper Tools Ltd**
Hursley Road
Chandlers Ford
Eastleigh
Hampshire
SO53 1YF
www.drapertools.com

Emergency telephone number: Draper Helpline +44 (0) 2380 494344
Opening hours 8:30-17:00 Monday – Friday.

SECTION 2: Hazards identification

Explosive risk
This article does not belong to the explosion dangerous goods.
Flammable risk
This article does not belong to the flammable material.
Oxidation risk
This article does not belong to the oxidation of dangerous goods.
Toxic risk
This article does not belong to the toxic dangerous goods.
Radioactive risk
This article does not belong to the radiation of dangerous goods.
Mordant risk
This article does not belong to the corrosion of dangerous goods.

SECTION 3: Composition/information on ingredients

Chemical Composition	Chemical Formula	CAS No.	Weight (%)
Copper	Cu	7440-50-8	7
Aluminium	Al	7429-90-5	4
Lithium hexafluorophosphate	$LiPF_6$	21324-40-3	12
Cobalt acid lithium	$LiCoO_2$	12190-79-3	35
Carbon	C	7440-44-0	19
Iron	Fe	7439-89-6	16
Polyethylene	PE	9002-88-4	3
Polypropylene	PP	9003-07-0	3
Nickel	Ni	7440-02-0	1
Lead	Pb	7439-92-1	Not Detected
Cadmium	Cd	7440-43-9	Not Detected
Mercury	Hg	7439-97-6	Not Detected

SECTION 4: First aid measures

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

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: Fire fighting measures

Flash Point: N/A.

Auto-Ignition Temperature: N/A.

Extinguishing Media: Water, CO2.

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

Steps to be Taken in case Material is Released or Spilled

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

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 or install with incorrect polarity.

SECTION 8: Exposure controls/personal protection

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.

Ventilation

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: Square

Odour: If leaking, smells of medical ether.

pH: Not applicable as supplied.

Flash Point: Not applicable unless individual components exposed.

Flammability: Not applicable unless individual components exposed.

Relative density: Not applicable unless individual components exposed.

Solubility (water): Not applicable unless individual components exposed.

Solubility (other): Not applicable unless individual components exposed.

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.
Materials to avoid: Oxidising agents, alkalis, water.
Hazardous Decomposition Products : Toxic Fumes, and may form peroxides.
Hazardous Polymerization : N/A.
If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

SECTION 11: Toxicological information

Signs & symptoms: None, unless battery ruptures.
In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
Inhalation: Lung irritant.
Skin contact: Skin irritant.
Eye contact: Eye irritant
Ingestion: Poisoning if swallowed.
Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

SECTION 12: Ecological information

Mammalian effects: None known at present.
Eco-toxicity: None known at present.
Bioaccumulation potential: Slowly Bio-degradable.
Environmental fate: None known environmental hazards at present.

SECTION 13: Disposal considerations

Disposal Methods:
Do not incinerate, or subject cells to temperature in excess of 70° C, Such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.

SECTION 14: Transport information

Label for conveyance: Lithium Battery Label
UN Number: UN3481
Packaging Group: N/A
EmS No: F-A ,S-I
Marine pollutant: No
Proper Shipping name:
Lithium ion batteries packed with equipment (Including lithium ion polymer batteries)
Hazard Classification:
The goods shall be complied with the requirements of Section II of Packing Instructions 966 of 59th DGR Manual of IATA （2018 edition）or special provision 188 of IMDG CODE（Amdt. 38-16）2016 Edition, including the passing of the UN38.3 test.

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

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

*** End of MSDS ***