

SDS No. 027

Version 3.0

Revised Date 15/02/2023



Safety Data Sheet - Lithium
1. Identification of the substance/mixture and of the company/undertaking:

Product identifier	Part Number
3v Lithium Battery	Pt. No. 12983
Rechargeable Battery Pack – GS700	Pt. No. 49221
LI ion Battery 4.8Ah	Pt. No. 49562
Battery Replacement Kit – PS200	Pt. No. 64246
Three PCB Assembly – PS200	Pt. No. 64290
Li Ion Battery 3.7V 1350mAh	Pt. No. 64321
Relevant identified uses of the substance or mixture and uses advised against:	Lithium Ion Batteries
Details of the supplier of the safety data sheet, company identification:	Gas Measurement Instruments Ltd Inchinnan Business Park Renfrew PA4 9RA Contact No: 0141 812 3211 Email address: gmi_sales@teledyne.com
Emergency contact details:	Opening hrs. 9:00 a.m. -5:00 p.m. Contact No: 0141 812 3211

2. Composition/information on ingredients

Substance/Preparation	Preparation
EEC Nr. (from EINECS)	Not applicable for preparations.
Components/Impurities	<i>Lithium Ion and Lithium Polymer batteries</i> contain lithium cobalt oxide, carbon, carbonates and other lithium salts.

3. Hazards Identification:

Hazards Identification	  Signal Word: Danger H251 Self Heating; may catch fire H351 Suspected of causing cancer H372 Causes damage to organs through prolonged or repeated exposure (lung) Flammable Liquids (2)
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4. First Aid Measures :

Skin Contact:	Remove contaminated clothing and shoes. Immediately wash with water, soap and rinse thoroughly. If irritation occurs, get medical attention.
Ingestion:	NOT INDUCE VOMITING. Obtain medical attention.
Inhalation:	Remove to fresh air. Administer artificial respiration if breathing is difficult. Obtain medical advice.
Eye contact:	Flush eyes with plenty of water for several minutes while holding eyelids open. Obtain immediate medical advice.

5. Fire- fighting measures:

Specific Hazards.	Special hazards arising from the substance or mixture Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (>150°C (302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in close proximity.
Hazardous combustion products.	May evolve toxic fumes.
Suitable extinguishing media	Use any means suitable for extinguishing surrounding fire
Specific methods	N/A
Special protective equipment for fire fighters	Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. Such as dry powder, CO2

6. Accidental release measures:

Personal precautions, protective equipment and emergency procedures:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, place the spilled material into a suitable disposal container. Keep spilled materials out of the skewers, ditches and bodies of water.
Environmental precautions:	Do not allow materials to be released to the environment without proper governmental permits.
Methods and material for containment and cleaning up	All waste must refer to local regulations for disposal

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7. Handling and Storage:

Precautions for safe handling	Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity
Conditions for safe storage	Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time sunlight Keep container tightly sealed

8. Exposure controls / personal protection:

Personal protection	<i>Ventilation:</i> No special ventilation is needed for normal use. <i>Respiratory Protection:</i> None required for normal use. <i>Skin Protection:</i> None required for normal use. Use neoprene, rubber or latex gloves when handling leaking batteries. <i>Eye Protection:</i> None required for normal use. Wear safety goggles when handling leaking batteries.
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9. Physical and chemical properties:

Relative density, gas.	N/A
Solubility mg/l water	N/A
Appearance / Colour	Various constructions and conformations are available.
Odour	N/A

10. Stability and reactivity:

Stability	Stable under normal conditions.
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11. Toxicological information:

General - Potential Health Effects:	No data available
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12. Ecological information:

General - Toxicity:	No data available
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13. Disposal Considerations:

General - Waste treatment methods:	Consult state, local or national regulations to ensure proper disposal
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14. Transport information:

UN Nr.	3481
Other transport information	Li Ion batteries shipped within a battery pack are coded as UN 3481

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	Lithium batteries are dangerous goods and, as such, require special packaging for transportation. All domestic and international shipments containing lithium batteries are subject to transport regulations on hazardous goods according to ADR RID, ADN, IMDG, ICAO / IATA Regulations. Battery Pack assemblies from Teledyne GMI are UN3481 - lithium ion batteries, rechargeable, contained in or packed with equipment.
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In case of any doubt, contact GMI customer service representative at 0141 812 3211.

15. Regulatory information:

EC Classification / Hazard Class 9; Packaging Instruction 967

16. Other Information

This product should only be used for the calibration of GMI instruments using the procedures laid out in the instrument manual.

Details given in this document are believed to be correct at the time of going to press. 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.