



Material Safety Data Sheet

This MSDS is authoring based on the data supplied by and identified on behalf of the client.

Sample Name: Infrared Thermal Camera

Client Name: FOTRIC INC.

Client Address: Block AB, 1006 Wangqiao Road, Pudong, Shanghai, China

MSDS No.: 90006402

Issue Date: December 23, 2019

Signed for and on behalf of
Regu (shenzhen) Co., Ltd.


David Chen 

Approved signatory

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1. Identification of the Substances/Preparation and of the Company/Undertaking

Product Details

Product Name: Infrared Thermal Camera

Battery Specification:18650 (2S1P) 7.4V 3500mAH 25.9Wh

Manufacturer: FOTRIC INC.

Address: Block AB, 1006 Wangqiao Road, Pudong, Shanghai, China

Emergency Telephone: +86-18930983430

2. Hazards Identification

Classification

Except babbery, this product is considered as "article" that consists of inert materials , which is non hazardous with normal use. Risks of the battery are described as follow.

As a solid, manufactured article, exposure to hazardous ingredients is not expected with normal use.

Classification of the substance or mixture

GHS Classification:

As article. Not applicable for classification.

Additional Hazards:

Battery is considered as sealed non-spillable one. Under normal operating conditions, the materials sealed inside should not be hazardous to people's health.

But when these materials exposed during production or under case broken condition or being extremely heated (fired), they may be hazardous to people ' s health: Skin contact with electrolyte solution causes severe skin burns and eye damage, and causes damage to organs through prolonged or repeated exposure.

3. Composition/Information on Ingredients

Chemical Characterization

Description: The battery is contained in a hermetically-sealed case(Outer shell), designed to withstand temperatures and pressures encountered during normal use. So during normal use, hazardous materials are fully contained inside the battery.

Substance	CAS #	Amount%
Lithium cobalt dioxide	12190-79-3	35-45
Electrolyte	105-58-8 21324-40- 3 96-49-1 616- 38-6	10-20
Copper	7440-50-8	6-16
Carbon	7440-44-0	13-24
Aluminum	7429-90-5	1-7
Aluminum laminated film	-	3-9
Separator	-	1-5

4. First-Aid Measures

Measures at accidental release of electrolyte solution

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If irritation occurs and persists, contact a doctor.

Skin Contact: Wash off with soap and plenty of water. If irritation occurs and persists, contact a doctor.

Inhalation: Move person into fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention immediately.

Advice to doctor: Treat symptomatically.

5. Fire-Fighting Measures

Flammability of the Product: Batteries may rupture or leak flammable material if exposed to excessive heat or fire.

Suitable Extinguishing Media: In case of fire where batteries are present, use extinguishing media such as sand, dry ground dolomite, dry chemical, CO₂ or flood the area with water. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture.

Special Exposure Hazards Arising From the Substance Itself or Combustion Products: Damaged batteries have the potential to release flammable vapors that could flash near an ignition source. At extreme temperatures, batteries may explode or vent.

Special Protective Equipment for Fire-Fighters: Firefighters should wear self-contained breathing apparatus and full fire-fighting gear if necessary. Fight fire from a distance or protected area.

6. Accidental Release Measures

Personal Precautions: ensure enough ventilation. Safety glasses and neoprene or natural rubber gloves should be worn when cleaning up damaged or leaking batteries. Keep unnecessary personnel away from the immediate area.

Precautions to Protect the Environment: Keep away of drains. Do not release into the environment.

Methods for Cleaning Up: Damaged cells batteries that are not hot or venting should be placed in a sealed plastic bag or container. Absorb any spilled liquid with inert material. Dispose of waste as in section 13.

7. Handling and Storage

Handling

Advices on Safe Handling: Recharge in well-ventilated condition. Do not expose battery to extreme heat or fire. Do not disassemble, crush or burn cell or battery. Avoid handling in a way that would cause a

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short circuit. When battery leaked or broken, do not contact inner materials.

Storage

Requirements for Storage Rooms and Vessels: Keep in a dry and cool place.

Advice on Storage Compatibility: Store batteries at room temperature in dry area away from direct sunlight. Do not store in a manner that would cause the terminals to short circuit. Keep away from fire, sparks and heat. Avoid damage to battery case. Keep batteries in original packaging until use and do not jumble them.

8. Exposure Controls/Personal Protection

Exposure Limits: None established for the finished product.

Engineering Controls: Batteries that have not been damaged do not require any special engineering controls.

Personal Protective Equipment:

Skin Protection: None required for normal use. Use gloves when handling leaking batteries.

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

Respiration Protection: None required for normal use. If leaked, wear self-absorption filter respirators or air respirator. In case of emergency rescue or evacuation, recommends wearing oxygen respirator.

General safety and hygiene: Use only as directed. None required for normal use.

9. Physical and Chemical Properties

General Information

Form:	Solid
Odor:	Odorless
pH:	N/A
Melting Point/Range:	N/A
Boiling Point/Range:	N/A
Percent Volatility:	N/A
Flash Point:	N/A
Density:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Evaporation Rate & Reference:	N/A
Solubility in Water:	Insoluble. Avoid contact with water.
Explosion Limits in Air - Upper :	N/A
Explosion Limits in Air - Lower:	N/A

10. Stability and Reactivity

Stability: Stable under recommended storage conditions

Incompatibility (Materials to Avoid): Avoid contact with strong oxides, strong acid and strong alkali materials.

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Conditions to Avoid: Moisture, heat, flames and sparks. Do not incinerate.

Hazardous Decomposition and/or Combustion Products: None hazardous decomposition under normal usage.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Acute Toxicity: No data available.

Serious Eye Damage/Eye Irritation: Electrolyte: cause eye damage.

Skin Corrosion/Irritation: Electrolyte: cause skin burn.

Respiratory or Skin Sensitization: Lithium cobalt(III) oxide: may cause an allergic skin reaction

Subacute Toxicity: No data available.

Chronic Toxicity: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: IARC: 2B - Group 2B: Possibly carcinogenic to humans (Lithium cobalt(III) oxide)

Reproduction Toxicity: No data available.

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Potential Acute Health Effects

Skin contact: Exposure to opened battery can cause skin sensitization or skin burn.

Eye contact: If the eyes accidentally touched the opened battery will lead to eye pain or burn.

Ingestion: In the case of a swallowing lithium-ion battery, can cause chemical burns in a short period of time. Seek medical attention as soon as possible. Do not induce vomiting.

Inhalation: Inhalation of the opened battery may stimulate the respiratory tract.

12. Ecological Information

Ecotoxicity: No data available.

Mobility: No data available.

Persistence and Degradability: No data available.

Environmental Adverse Effects: When properly used or disposed, the batteries do not present environmental hazard. Since some internal materials may be harmful the environment, do not bury or throw out into the environment.

13. Disposal Considerations

Waste Disposal Methods: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Don't release the waste to environment.

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14. Transport Information

If battery meet the required of following items, can be transported by non hazardous goods. (The Battery should pass the test items of UNITED NATIONS "recommendations on the transport of dangerous goods" manual of tests and Criteria ST/SG/AC.10/11/Rev.6, 38.3. and with suitable package and label)

Air Transport Association (IATA DGR 60th Edition, 2019) Packing Instructions :

967 Section II (UN3481, Lithium ion batteries contained in equipment)

Production of MSDS proving UN manual of Tests and Criteria, part III, sub-section 38.3 is met on MSDS. See Report No.1117040116 issued by Shanghai Tech Chemica Industry Testing Co., Ltd.

International Maritime Organization (IMO)

Special Provisions 188 and 230

European Agreement Concerning the International Carriage of Dangerous Goods by Road(ADR)

Special Provisions 188 and 230

U.S. Department of Transportation (DOT)

49 CFR 173.185 and 173.185(c)

15. Regulatory Information

International Regulations

Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

Abbreviations: pH - Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

OSHA- Occupational Safety and Health Administration

NTP – National Toxicology Program

IARC- International Agency for Research on Cancer

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds

ACGIH – The American Conference of Governmental Industrial Hygienists

ADR –Agreement on Dangerous Goods by Road

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

ICAO –International Civil Aviation Organization

IATA –International Air Transport Association

IMO – International Marine Organization

IMDG - International Maritime Dangerous Goods

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Further Information:

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
- This safety data sheet was prepared in accordance with GHS, The EU CLP REGULATION (EC) No 1272/2008, and ANSI Z400.1.

*****End*****