

Safety Data Sheet

Shipping Name: Streamlight Li-ion Battery Pack Product Name: Streamlight Li-ion Battery Pack

Document No.: MSDS-03133-001

Revision: Rev 03 Date: 4/22/2021

Approved by: International Components Corporation

Corporate Headquarters

May be used to comply with OSHA's hazard communication standard. 29 cfr 1910.1200. Standard must be consulted for specific

requirements.

Material Safety Data Sheets (MSDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees. Because all of our battery packs are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard.

Section 1 -- Chemical and Company Identification

Product Identification

Product Name: Streamlight Li-ion Battery Pack 3.75V 2.0Ah 7.5Wh

Manufacturer: International Components Corporation

Fabricators International Ltd. Division:

Model Number: 74175

Company Identification

International Components Corporation 4 Westbrook Corporate Center, Suite 900 Westchester, Illinois 60154 USA

Ph: 708-836-3800

Emergency 24-Hour Telephone Number:

INFOTRAC

Inside the US: 1-800-535-5053 Outside the US: 001-352-323-3500



Section 2 -- Composition / Information on Ingredients

Battery pack contains 1 Lithium -lon, 3.7V, 2.15Ahr cells encapsulated in a plastic (Nylon) enclosure.

The following materials are found in the enclosed cells of the Lithium Ion battery pack:

Component	Material	Formula
Positive Electrode	Lithium Cobalt Oxide	LiCoO ₂
Negative Electrode	Graphite	С
Electrolyte	Ethylene Carbonate – Solvent	C ₃ H ₄ O ₃
	Diethyl Carbonate – Solvent	C₅H10O3
	Lithium Hexaflurophosphate - Salt	LiPF ₆

(The overall reaction is: $Li_xC + Li_{1-x}CoO_2 \Leftrightarrow C + LiCoO_2$)

Mechanical Specifications

	Weight	Watt Hours	Equivalent Lithium Content
Battery Pack	50g	7.5 Wh	0.65g

Section 3 -- Hazards Identification

Cells may explode in a fire causing the release of hydrogen fluoride gas. Use extinguishing media suitable for materials burning in fire.

Primary Routes of Entry

Skin contact – No effect under routine handling and use
Skin absorption – No effect under routine handling and use
Eye contact – No effect under routine handling and use
Inhalation – No effect under routine handling and use
Ingestion – No effect under routine handling and use

Symptoms of Exposure

Under routine handling and use, there will be no effect from exposure.

Skin contact – No effect under routine handling and use
Skin absorption – No effect under routine handling and use
Eye contact – No effect under routine handling and use
Inhalation – No effect under routine handling and use
Reported as carcinogen Not applicable



Section 4 - First Aid Measures

If exposure to internal materials within cell due to damaged outer casing, the following actions are recommended.

Skin contact – Wash area thoroughly with soap and water and seek medical attention.

Eye contact – Rinse eyes with water for 15 minutes and seek medical attention.

Inhalation – Leave area immediately and seek medical attention.

Ingestion – Drink milk/water and induce vomiting; seek medical attention.

Section 5 – Fire Fighting Measures

General Hazard

Cell is not flammable but internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

Extinguishing Media

Use extinguishing media suitable for the materials that are burning.

Special Firefighting Instructions

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) may explode/vent.

Firefighting Equipment

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

Section 6 – Accidental Release Measures

On Land

Place material into suitable containers and call local fire/police department.

In Water

If possible, remove from water and call local fire/police department.



Section 7 - Handling and Storage

Handling

No special protective clothing required for handling battery packs.

Storage

Store in a cool, dry place

Section 8 – Exposure Controls / Personal Protection

Engineering controls

Keep away from heat and open flame; store in a cool, dry place.

Personal Protection

Respirator

Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection

Not required beyond safety practices of employer.

Gloves

Not required for handling of battery packs.

Foot protection

Steel toed shoes recommended for large container handling.

Section 9 – Physical and Chemical Properties
Solid
N/A
Insoluble
N/A
N/A
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Section 10 - Stability and Reactivity

Reactivity

None

Stability

Stable under routine use

Incompatibilities

None during normal operation

Hazardous Decomposition Products

None during normal operating conditions

If cells are opened, hydrogen fluoride and carbon monoxide may be released.

Conditions to Avoid

Avoid exposure to heat and open flame.

Do not puncture, crush, or incinerate.

Section 11 – Toxicological Information

This product does not emit toxins during routine handling and use.

Sensitization No Teratogenicity No Reproductive Toxicity No Acute Toxicity No

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

Section 12 – Ecological Information

Some materials within the cell are bio-accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

Section 13 – Disposal Considerations

Recommended methods for safe and environmentally preferred disposal:

Product

Recycle through a recycling company. Do not throw a used battery or battery pack into the environment.

Contaminated Package

The battery pack is not contaminated under normal use. If internal materials leak, dispose as industrial wastes subject to special control.

California regulated debris RCRA Waste Code: Non-regulated dispose of according to all federal, state, and local regulations.



Section 14 -- Transport Information

The battery meets the requirements of the test in the United Nations (UN) Manual of Tests and Criteria, Part III, sub-section 38.3

DOT: Refer to Attachment ERG 2008 guide 138 (Emergency Response Guide)

IMDG: Refer to IMDG/Ocean Transport ENS F-A, S-I IATA: Refer to IATA-ICAO/Air Transport ERG CODE 9F

Battery Pack

Proper Shipping Name: Lithium Ion Batteries.

When large amount of batteries are transported by ship, vehicle and railroad, avoid high temperature and dew condensation.

Avoid transportation which may cause damage of package.

Section 15 – Regulatory Information

The transport of rechargeable lithium-ion batteries is regulated by various bodies, (IATA, IMO, US-DOT) that follow the United Nations "Recommendations on the Transport of Dangerous Goods.

Regulations specifically applicable to the product:

ICAO 2009/2010 Edition of ICAO Technical Instructions for the Safety Transport of Dangerous Goods by Air IMO IMDG Amendment 34-08 2008-2010

IATA 52nd Edition (2011) of the IATA Dangerous Goods Regulations (DGR)

US Department of Transportation DOT (49 CFR 100-185), (USA)

OSHA hazard communica	ition standard (29 CF	FR 1910.1200)
Hazardous	N	on-hazardous

The battery meets the requirements of Packing Instructions 965, Section II of the IATA regulation.

Section 16 -- Other Information

The information contained in this document is based on the present knowledge and current legislation. It provides guidance on health, safety, and environmental aspects for the identified product and should not be understood as any guarantee of technical performance or suitability for particular applications.

UN Test Results: This product has been tested and found to conform to UN tests as recognized by the certificate below.