



Product Safety Data Sheet (PSDS)

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SECTION 1: Identification

Product Names: DS160 Substrobe
DS161 Substrobe
Lithium-ion (Li-ion) Battery Pack for DS125, DS160, DS161

Type: Rechargeable photographic strobe flash

Intended Use: Underwater photography

Manufacturer: Ikelite Underwater Systems

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Indianapolis, IN 46208 USA

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+1 800-424-9300 (Within the U.S. & Canada)
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SECTION 2: Composition

- Internal rechargeable Lithium-ion battery; 6 cell, $\leq 7.2V$, 3900 mAh, 28.86 Whr.
- Internal electronic circuitry, Light Emitting Diodes (LEDs) and Xenon flash tube.
- External plastic and rubber outer body.

SECTION 3: Hazards Identification

The rechargeable Lithium-ion batteries described in this Product Safety Data Sheet are sealed units and are not hazardous when used according to the recommendations of the manufacturer.

SECTION 4: First Aid Measures

General Advice Exposure to the contents of the lithium ion batteries is not expected to occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically or electrically abused.

Inhalation Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

Skin Contact Wash off skin thoroughly with water. Remove contaminated clothing and wash before reuse. In severe cases obtain medical attention.

Eye Contact Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
Do not stare directly into light source.

Ingestion Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical attention.

Further Treatment All cases of eye contamination, persistent skin irritation and casualties should be seen by a Doctor.

SECTION 5: Fire Fighting Measures

- Use CO2 extinguisher, copious amounts of water or water-based foam to cool down or extinguish a fire.
- Do not use for this purpose sand, dry powder or soda ash, graphite powder or fire blankets.
- Firefighters should wear a positive pressure self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental Release Measures

In the event of leakage wear gloves. Sand or earth should be used to absorb any exuded material. Seal leaking battery and any contaminated absorbent material in plastic bag and dispose of as Special Waste in accordance with local regulations.

SECTION 7: Handling and Storage

DO NOT OPEN the sealed strobe head or battery pack.

Rinse and dry equipment prior to storing. Charge the battery pack to at least half to maintain healthy condition of the cells. Always place the power switch in the locked off position when not in use. Leave the battery pack lever open when storing for extended periods of time.

Store in a cool and ventilated area, away from moisture, sources of heat or open flames.. Temperature above 70°C may result in battery leakage and rupture.

SECTION 8: Exposure Controls & Personal Protection

Keep power switch in the off state with lock engaged when not in use. Fuse switches and heat management circuitry is built into the strobe head and battery pack to prevent accidental over-heating, short circuits, over-charge or over-discharge.

DO NOT OPEN the battery pack or strobe head. This equipment is factory sealed for consumer safety and warranty.

SECTION 9: Physical and Chemical Properties

In normal use, equipment operates at a safe-to-touch temperature in all environments. All internal components are factory sealed within a cylindrical shell composed of plastic and rubber. No relevant physical or chemical properties unless internal components are exposed.

SECTION 10: Stability and Reactivity

Product is stable under conditions described in Section 7.

SECTION 11: Toxicological Information

Equipment is non-toxic if used and disposed of correctly.

SECTION 12: Ecological Information

Equipment is non-toxic to the environment if used and disposed of correctly. Refer to Section 13. Disposal Considerations.

SECTION 13: Disposal Considerations

Do not incinerate, or subject cells to temperatures 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 on electronic waste disposal.

SECTION 14: Transport Information

The strobe must be in the off state with power switch lock engaged to prevent accidental activation during transportation. It is recommended to separate the battery pack from the strobe and wrap in a non-conductive, non-flammable material.

These strobe models comply with packing instructions 967 for UN 3481 (rechargeable Li-Ion packaged with equipment) as required by the ICAO Transport of Lithium Batteries Guidance Document and IATA Dangerous Goods Regulations. The Li-Ion battery used in this strobe contains an ELC of less than 2 grams and is less than 100Whr. The enclosed lithium ion batteries are tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3. ADR Class 9.

SECTION 15: Regulatory Information

Regulations specifically applicable to the product:

- UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3.
- IATA/ICAO (air transportation): UN 3481
- IMDG (sea transportation): UN 3481
- FCC part 15, subpart B, section 15.109 for Class "B" products
- CE compliant with all applicable EU directives

SECTION 16. Other information

For more Information, visit <http://www.lkelite.com>