



Safety Data Sheet (SDS)

Light Emitting Diode (LED) Lamps

The information and recommendations below are believed to be accurate at the date of document preparation. Ascent Battery Supply makes no warranty or merchantability or any other warranty, express or implied, with respect to this information and assumes no liability resulting from its use. This SDS provides guidelines for safe use and handling of product. It does not, and cannot, advise all possible situations. All specific uses of this product must be evaluated by the end user to determine if additional safety precautions should be taken.

The Safety Data Sheet (SDS) requirements of the Occupational Safety and Health Administration (OSHA) for chemicals are *not* applicable to manufactured articles such as lamps. No material contained in a lamp is released during normal use and operation.

The following SDS information is provided as a courtesy to Ascent customers.

SECTION 1 - IDENTIFICATION

Product Name	Self-Ballasted Light Emitting Diode (LED) Lamps		
Common Name(s)	LED		
Synonyms	LED Bulb, LED Lamp		
DOT Description	N/A		
Chemical Name	N/A		
Distributed By	Ascent Battery Supply, LLC	Emergency Number	CHEMTREC 1-800-424-9300
Address	1325 Walnut Ridge Drive Hartland, Wisconsin 53029	International Emergency Number	CHEMTREC +1 703-741-5970

SECTION 2 – HAZARD(S)

There are no known health hazards from exposure to lamps that are intact. No adverse effects are expected from occasional exposure to broken lamps.

Never look directly at an illuminated LED chip, as the eye may be injured from exposure to the emitted light. The UV (ultraviolet) energy emitted by an LED lamp complies with the Photobiological Safety of Lamps, IEC 62371.

SECTION 3 – COMPOSITION

Glass	Made from soda lime, similar to that used throughout the glass industry for common consumer goods
Metal	Common elemental and alloyed Aluminum, Tin, Lead, Copper, Zinc or Nickel.
LED	LEDs consist of metals, phosphor, plastics and InGaN (Indium Gallium Nitride) semiconductor chip. Due to the insolubility and inertness of these materials, there is no significant health hazard.
Electronic Driver	Built into the lamp housing and consists of components similar, but may not be identical, to those used throughout the consumer electronics industry.
Plastics	This product consists of high molecular weight polymers that are non-hazardous: such as PBT and/or PET.

SECTION 4 – FIRST AID MEASURES

Cuts due to Glass, Metal, or Plastic Employ standard first aid practices. Consult a physician if necessary.
Dust Inhalation Remove to a well-ventilated area. Consult a physician if necessary.

SECTION 5 – FIRE-FIGHTING MEASURES

These lamps are not generally flammable, although some components of some lamps may be. These lamps are not known to spontaneously combust. If the lamps are involved in a fire, use standard fire-fighting procedures. Dial 911 for emergency assistance.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Should breakage occur, the following measures are recommended:

Glass, Plastic, Metal Take usual precautions for collection of broken materials; use protective gloves and/or clothing. Place broken material in a closed container to prevent generation of excessive dust.

Lead Solder Dispose of any lead-bearing sections of the lamp (ballast/driver circuitry) in accordance with federal, state and local regulations.

SECTION 7 – HANDLING AND STORAGE

Store lamps appropriately; avoid storage areas that are wet or prone to flooding.
Keep lamps protected from accidental breakage. Should breakage occur, refer to the protective measures in Sections 6 & 8.

SECTION 8 – EXPOSURE/PERSONAL PROTECTION

Glass Wear gloves while handling broken glass.

Lead Solder Wear gloves while handling electronic components, particularly those constructed with lead-bearing solder. Always wash hands after handling these materials.

Dust from broken lamps If exposed to a large number of broken lamps (such as in preparing for lamp recycling), make sure to move to a well-ventilated area with local exhaust ventilation or wear protective breathing equipment.

SECTION 9 – PHYSICAL/CHEMICAL PROPERTIES

N/A

SECTION 10 – STABILITY & REACTIVITY

As constructed, the materials in these lamps are stable and non-reactive at standard operating temperatures.

SECTION 11 – TOXICOLOGICAL INFORMATION

Glass Glass dust is considered to be physiologically inert, with an OSHA exposure limit of 15 mg/m³ for total dust and 5 mg/m³ for respiratory dust.

SECTION 12 – ECOLOGICAL INFORMATION

N/A

SECTION 13 – DISPOSAL

Manage in accordance with federal, state and local disposal laws and regulations. See www.lamprecycle.org

SECTION 14 – TRANSPORT

N/A

SECTION 15 – REGULATORY INFORMATION

N/A

SECTION 16 - OTHER

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