LED
Material Safety Data Sheet (MSDS)

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TECHNICAL CONSUMER PRODUCTS believes that under the Occupational Safety and Health Administration (OSHA) Hazards Communications Standard (29 CFR 1910.1200), a lamp (light bulb) is exempt as an "article", and that as such, does not require an MSDS. The original OSHA Standard defined an article as something that: 1) is formed to a specific shape and design, 2) has end use functions dependent upon its shape and design, and 3) does not release or otherwise result in an exposure to a hazardous chemical under normal conditions of use.

In February 1994, OSHA amended the Hazard Communication Standard and modified part 3 of the above to read: 3) does not release more than very small quantities of a hazardous chemical under normal conditions of use. State and local regulations also contain similar exemptions for such articles. Materials contained in the lamp are not released during normal use and operation. The following information is provided as a courtesy to our customers.

Section 1. MANUFACTURER AND CONTACT INFORMATION

Technical Consumer Products, Inc. • 325 Campus Drive • Aurora, Ohio 44202 • 1-800-324-1496

Section 2. HAZARDOUS INGREDIENTS

These lamps do not contain any hazardous materials in reportable quantities.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT.

All lamps contain solid-state light emitting diodes (LEDs) as the light-generating source. These LEDs are contained in various bulb (envelope) types and shapes that may be constructed of aluminum, glass, plastic, or a combination of these materials. Some products also contain circuitry to energize the LEDs. All lamps are fitted with a metal base or pins for installation in appropriate lighting fixtures. These bases are generally comprised of aluminum, nickel-plated tin, nickel-plated brass, plastic or a combination of these materials

Section 4. FIRST-AID MEASURES

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT.

No adverse effects are expected from occasional exposure to broken lamps. As a matter of good practice, avoid prolonged or frequent exposure to broken lamps. The major hazard form broken lamps is the possibility of sustaining glass cuts, apply normal first-aid.

Section 5. FIRE AND EXPLOSION HAZARDS

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT.

Flammability: Non-combustible

If exposed to extreme heat the plastic and glass components may crack or melt.

Section 6. HEALTH HAZARDS

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT.

Section 7. LAMP DISPOSAL

Take usual precautions for collection of broken glass.

Section 8. SPECIAL HANDLING

Ventilation: Avoid prolonged exposure through the use of adequate ventilation during clean up or disposal.

Hand and Eye Protection: OSHA specified safety glasses, goggles, or face shield and puncture resistant gloves are recommended if lamps are being broken.

The major hazard from broken lamps is the possibility of sustaining glass cuts, apply normal first-aid.

continued

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

No applicable information available.

Section 10. STABILITY AND REACTIVITY

No applicable information available.

Section 11. TOXOLOGICAL/REGULATORY INFORMATION

No applicable information available.

These lamps do not contain any materials that would subject them to special waste disposal or transportation requirements

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