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Instruction Sheet

Subject: LuminIce®

BROKEN BULB CLEAN-UP PROCEDURE

The cleanup procedure is identical to the procedure used to clean up compact fluorescent (CFL) or fluorescent tube lights. These lights contain a small amount of mercury sealed within a glass tube.

Breaking these types of lights will release mercury and mercury vapor. The broken bulb can continue to release mercury vapor until it is cleaned up and removed.

To minimize exposure to mercury vapor, the EPA (Environmental Protection Agency) recommends the following cleanup and disposal steps.

This cleanup guidance represents the minimum actions recommended to clean up a broken light containing mercury, and will be updated if the EPA identifies more effective cleanup practices.

The latest EPA procedures can be viewed on their website at www.epa.gov/cfl/cflcleanup.html.

BEFORE CLEANUP

- Have people and pets leave the room, and avoid the breakage area on the way out.
- Open a window or door to the outdoors and leave the room open for 5 - 10 minutes.
- Shut off the central forced air heating/air conditioning (H&AC) system.
- Collect materials you will need to clean up the broken bulb:
  - A. Stiff paper or cardboard
  - B. Sticky tape (e.g., duct tape)
  - C. Damp paper towels or disposable wet wipes (for hard surfaces)
  - D. Glass jar with a metal lid (such as a canning jar) or a seal-able plastic bag(s)

DURING CLEANUP

- Be thorough in collecting broken glass and visible powder.
- Place cleanup materials in a sealable container.

AFTER CLEANUP

- Promptly place all bulb debris and cleanup materials outdoors in a trash container or protected area until materials can be disposed of properly.
  Avoid leaving any bulb fragments or cleanup materials indoors.
- If practical, continue to air out the room where the bulb was broken and leave the heating/air conditioning system shut off for several hours.

CLEANUP STEPS FOR HARD SURFACES

1. Carefully scoop up glass fragments and powder using stiff paper or cardboard and place debris and paper/ cardboard in a glass jar with a metal lid. If a glass jar is not available, use a sealable plastic bag.

NOTE: Since a plastic bag will not prevent the mercury vapor from escaping, remove the plastic bag(s) from the home after cleanup.

2. Use sticky tape, such as duct tape, to pick up any remaining small glass fragments and powder. Place the used tape in the glass jar or plastic bag.
3. Wipe the area clean with damp paper towels or disposable wet wipes. Place the towels in the glass jar or plastic bag.

NOTE: Vacuuming of hard surfaces during cleanup is not recommended unless broken glass remains after all other cleanup steps have been taken. It is possible that vacuuming could spread mercury containing powder or mercury vapor, although available information on this problem is limited.

If vacuuming is needed to ensure removal of all broken glass, keep the following tips in mind:

- Keep a window or door to the outdoors open.

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- Vacuum the area where the bulb was broken using the vacuum hose, if available; and remove the vacuum bag (or empty and wipe the canister) and seal the bag/ vacuum debris, and any materials used to clean the vacuum, in a plastic bag.
- Promptly place all bulb debris and cleanup materials, including vacuum cleaner bags, outdoors in a trash container or protected area until materials can be disposed of properly.
- Check with your local or state government about disposal requirements in your area. Some states and communities require fluorescent bulbs (broken or unbroken) be taken to a local recycling center.
- Wash your hands with soap and water after disposing of the jars or plastic bags containing bulb debris and cleanup materials.
- Continue to air out the room where the bulb was broken and leave the H&AC system shut off, as practical, for several hours.

FUTURE CLEANING OF CARPETING OR RUGS

1. Air out the room during and after vacuuming.
2. The next several times you vacuum the rug or carpet:
   A. Shut off the H&AC system.
   B. Close the doors to other rooms.
   C. Open a window or door to the outside before vacuuming.
   D. Change the vacuum bag after each use in this area.

NOTE: After vacuuming is completed, keep the H&AC system shut off and the window or door to the outside open, as practical, for several hours.