

INDOOR SUNSHINE® manufactured by Light for Health, Inc.

Sold by Sunshine Sciences Compact Fluorescent Light Safety Specifications
Material Safety Data Sheet (MSDS) MSDS-One Issue Date: July 1 2007

Compact Fluorescent Lamps – Spiral with Screw-In / Edison Base

INFORMATION AND APPLICABILITY

Sunshine Sciences believes that under the Occupational Safety and Health Administration (OSHA) Hazards Communications Standard, 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 bulb are not released during normal use and operation. The following information is provided as a courtesy to our customers.

PRODUCT AND COMPANY IDENTIFICATION

Description: Trade Name (as labeled) Indoor Sunshine®

Manufacturer: Light for Health, Inc. Sold by Sunshine Sciences

PO Box 19917, Boulder, CO 80308 2140 Springs Place, Longmont, Co 80504

Phone: 1-800-468-1104 or 1-303-834-9161

15 Watt Part No. CFIS-10815-M | UPC 8-96635-00103-7 | Replaces Standard 60 Watt

25 Watt Part No. CFIS-10825-M | UPC 8-96635-00101-3 | Replaces Standard 120 Watt

30 Watt Part No. CFIS-10830-M | UPC 8-96635-00100-6 | Replaces Standard 150 Watt

20/23/30 Watt 3-way Part No. CFIS-10830-S-3 | UPC 8-96635-00104-4 |

Replaces Standard 75/100/150 Watt

COMPOSITION / INFORMATION ON INGREDIENTS

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

Lamp Assembly – Glass and Metal – The glass is made from soda lime similar to that used throughout the glass industry for other common consumer items. The metals for endcaps and filaments are generally made from various amounts of aluminum, tin, lead, copper, zinc, and nickel. None of these materials would present a potential hazard in the event of breakage of the lamp bulb, aside from the hazard of broken glass.

Mercury – Small amounts of mercury are used in all fluorescent lamps. Generally around 0.025% by weight. The amount of mercury present in any given lamp will vary depending on both the size of the lamp and on the equipment that was used in its manufacturer. Indoor Sunshine® continues to reduce the amounts of mercury used in fluorescent products.

Phosphor – (nuisance dust) phosphate mix using manganese, rare earth metal elements such as lanthanum, and yttrium as either an oxide or as a phosphate, along with barium / aluminum oxide all are tightly bound in the phosphor matrix. These phosphors produce better lamp efficiency and color rendition. Some lamps may contain a thin coating of tin oxide inside the glass.

PHYSICAL PROPERTIES Not applicable to a lamp not broken or damaged.

EXPLOSION HAZARDS When exposed to high temperature, toxic fumes may be released from broken lamps.

HEALTH CONCERNS 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 unless there is adequate ventilation. The major hazard from broken lamps is the possibility of sustaining glass cuts.

Mercury The mercury in the air as a result of breaking one or a small number of fluorescent lamps should not result in significant exposures to an individual. However, when breaking a large number of lamps for disposal, appropriate industrial hygiene monitoring and controls should be implemented to minimize airborne levels or surface contamination. We recommend a well-ventilated area and local exhaust ventilation or personal protective equipment.

Phosphor There have been no significant adverse effects on humans by ingestion, inhalation, skin contact, or eye contact. Antimony, manganese, yttrium and tin compounds are characterized by OSHA as hazardous chemicals, however, due to their insolubility, relatively low toxicity and small amount present in the phosphor and lamp, these materials do not present a significant hazard in the event of breakage of the lamp.

Glass Glass dust is considered to be physiologically inert and as such has an OSHA exposure limit of 15-mg/cubic meter for total dust and 5-mg/cubic meter for respirable dust. Perform normal first aid procedures. Seek medical attention as required.

Inhalation If discomfort, irritation or symptoms of pulmonary involvement should develop, remove from exposure and seek medical attention.

Ingestion In the unlikely event of ingestion of a large quantity of material, seek medical attention.

Contact: Skin Thoroughly wash affected area with mild soap or detergent and water and prevent further contact. Seek Medical attention if irritation occurs.

Contact: Eye Wash eyes / skin, including under eyelids, immediately with copious amounts of water for 15 minutes. Seek medical attention.

PROCEDURES FOR DISPOSAL OF LAMPS

The usual precautions for collection of broken glass. Place materials in closed containers to avoid generating dust. A Toxicity Characteristic Leaching Procedure (TCLP) was conducted on these products showing a result of mercury content that is not considered hazardous waste. For field disposal the lead in the soldering is considered hazardous waste and must be disposed of by applicable federal, state and local regulations.

Although INDOOR SUNSHINE® sold by SUNSHINE SCIENCES attempts to provide current and accurate information herein, it makes no representation regarding the accuracy or completeness of the information and assumes no liability for any loss, damage or injury of any kind which may result from or arise out of the use of / or reliance on the information by any person.