

FLUORESCENT LAMP

Material Data Safety Sheet

(MSDS)



INFORMATION AND APPLICABILITY

The Material Safety Data Sheet (MSDS) 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 information is provided as a service to our customers. This Lamp Material Information Sheet contains the Material Safety Data Sheet information that is applicable.

Section 1. MANUFACTURER AND CONTACT INFORMATION

EIKO GLOBAL

- US : 18000 W. 105 Street, 3rd Floor, Olathe, KS 66061 • 1-800-852-2217
- Canada : 7900 Goreway Dr Unit 8, Brampton, ON L6T 5W6 • 1-888-741-2673

Section 2. LAMP MATERIALS AND HAZARDOUS INGREDIENTS

GLASS & METAL

- The glass tube used is soda-lime glass and similar to that used in the glass industry for common consumer items. The end-caps are aluminum. The filaments, also called cathodes, are tungsten. Other than the usual concerns of broken glass, these materials do not pose a hazard in the event that the lamp breaks.

PHOSPHOR

- The products line use two different phosphor mixes, depending on color rendering index (CRI). The lower CRI mix (halo phosphate) uses calcium chloro-fluoro-phosphate, with small amounts (less than 1-2% by weight the phosphor) of antimony and manganese, both of which are tightly bound in the phosphor matrix. The higher CRI mix (tri-phosphor) uses a mixture of rare earth elements such as lanthanum, and yttrium as either an oxide or as a phosphate, along with a barium/aluminum oxide. These phosphors produce better lamp efficiency and color rendition. The phosphor components may vary slightly depending on the color of the lamp (cool white, warm white, etc.).

MERCURY

- Small quantities of mercury are present in any fluorescent lamp. The amount of mercury used currently in T5-14/21/28/35W linear lamps are 2.7mg, T5-39/54W linear lamps are 3.5mg, T8 linear lamps is 3.2mg, T8 U-bend lamps are 7.5mg.

PLASTIC MATERIAL

- The plastic housing is typically made of PBT (Polybutylene-terephthalate) or PET (Polyethylene-terephthalate) fire retarded plastic with a bromine-containing polymer and antimony oxide. The plastic housing is glass fiber filled. This product consists primarily of high molecular weight polymers that are not hazardous.

Section 3. HEALTH CONCERNS

EXPOSURE TO INTACT LAMPS DOES NOT POSE ANY KNOWN HEALTH HAZARD

PHOSPHOR

- As with most inorganic compounds, antimony, manganese, yttrium, and tin are characterized by OSHA as hazardous chemicals. However, they have low toxicity, are insoluble, and are present in very small amounts in the lamp; therefore these compounds are not a significant hazard in the event that the lamp breaks.

MERCURY

- If a small number of lamps are broken, the mercury and/or phosphor concentration in the air should not cause significant exposure to people nearby. If large numbers of lamps are broken, clean-up personnel should use appropriate industrial hygiene monitoring and controls to minimize airborne or surface contamination levels. Personal protective equipment may be needed.

GLASS

- Take normal care with broken glass.

Section 4. DISPOSAL CONCERNS

- Take normal precautions for broken glass.
- Avoid generating dust; personal protective equipment may be needed.
- Contains mercury. A Toxicity Characteristic Leaching Procedure (TCLP) test was done on these lamps, and they passed the test, being below the limit of 0.200 milligrams of mercury per liter of leachate. Manage in accord with disposal laws. See: www.lamprecycle.org.

ITEM	ORDER CODE
DT13/27	15560
DT13/41	49217
DT13/50	49218
DT18/35/RS	49284
DT24/30/RS	49288
F13T5/CW	15517
F14T5/841	81148
F14T8/CW	15519
F15T8/BL	15526
F15T8/CW	15521
F15T8/D	15522
F15T8/WW	15523
F17T8/835K	49576
F17T8/841K	49577
F17T8/850K	48055
F21T5/835	81149
F21T5/841	81150
F24T5/HO/835	81154
F24T5/HO/841	81155
F25T8/835K	49582
F25T8/TL835/ALTO-PH	12843
F28T5/835	81151
F28T5/841	81152
F28T5/850	81153
F28T8/830/ES	06603
F28T8/835/ES	06604
F28T8/841/ES	06605
F28T8/850/ES	06606
F32T8/830K	49587
F32T8/835K	49588
F32T8/841/ES/25W	06750
F32T8/841K	49589
F32T8/841K/U6	02404
F32T8/850K	81174

ITEM	ORDER CODE
F32T8/850K/HL	06571
F32T8/850K/U6	02405
F32T8/865K	07147
F32T8/ADV835/EW/ALTO II 28W	28102
F35T5/830	04727
F40T12/CW/HE	08293
F49T5/HO/835	00973
F49T5/HO/841	00976
F49T5/HO/850	00981
F4T5/CW	15500
F4T5/D	15501
F54T5/HO/835	81158
F54T5/HO/841	81159
F54T5/HO/850	81160
F54T5/HO/865	06854
F59T8/835/96	10939
F6T5/CW	15505
F86T8/835/96/HO	10940
F8T5/CW	15510
F8T5/D	15511
F96T8/TL835/HO/PLUS/ALTO	
FC12T9/CW	15606
FC8T9/CW	15604
QT13/50-4P	49245
QT18/27-4P	49247
SP13/27-4P	05251
SP13/35K	00032
SP13A19/27K	06447
SP15G25/41K	07871
SP19/27K	00034
SP19/35K	00035
SP27/50K	05415
SP7B10/E12/27K	06442
SP9G25/27K	06550