

PSDS 1.1

PRODUCT SAFETY DATA SHEET
PSDS No. 1.1
FLUORESCENT LAMPS



Sylvania brand Fluorescent Lamps, manufactured by Sli INC./Sli LIGHTING, are exempted from the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) because they are "articles." The following information is provided by Sli LIGHTING, as a courtesy to its customers.

I. PRODUCT IDENTIFICATION

Trade Name: **Sli Fluorescent Lamps**

- This data sheet covers Sli Lighting (Cool White, Warm White, Daylight, etc; 700, 800, 900 series triphosphor) standard and Sli Luxline Fluorescent Lamps for General Lighting.
 - This data sheet does not cover compact* fluorescent nor plant, aquarium/vivarium, photocopy, germicidal, blacklight, or any colored fluorescent lamps.
- *See PSDS No. 1.1.5 for Compact Fluorescent Lamps.

Manufacturer: Sli Lighting
 122 East Laurel Street
 Mullins, SC 29574
 1(800) 922-6693

II. HAZARDOUS INGREDIENTS

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

If the lamp is broken, the following materials may be released:

Chemical Name	CAS Number	% by wt.	Exposure Limits in Air (mg/cubic m)	
			ACGIH (TLV)	OSHA (PEL)
Glass (soda-lime)	-----	75-95	10 (2)	15 ⁽²⁾
Mercury ^(1,4)	7439-97-6	<0.01-<0.05	0.025	0.1 Ceiling
Lead Oxide ^(1,3,4)	1317-36-8	0.2-2.0	0.05	0.05
Aluminum Oxide	001-344-281	0-2.0	10 ⁽²⁾	15 ⁽²⁾
Fluorescent Phosphor and cathodes may contain:	-----	0.5-3.0	10 ⁽²⁾	15 ⁽²⁾
Fluoride (as F)	-----	0-0.1	2.5	2.5
Manganese ⁽³⁾ (as dust)	7439-96-5	0-0.1	0.2	5.0 Ceiling
Tin ⁽³⁾ (as dust)	7440-31-5	0-0.1	2.0	2.0
Yttrium ⁽³⁾ (as dust)	7440-65-5	0-0.5	1.0	1.0
Barium ⁽³⁾ (as dust)	7440-39-3	<0.1	0.5	0.5
Tungsten ⁽³⁾ (as dust)	7440-33-7	<0.1	1	15 ⁽²⁾

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Strontium ⁽³⁾ (as dust)	7440-24-6	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Magnesium ⁽³⁾ (as dust)	7439-95-4	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Calcium ⁽³⁾ (as dust)	---	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Antimony ⁽³⁾ (as dust)	7440-36-0	0-0.1	0.5	0.5
Zinc ⁽³⁾ (as dust)	7440-66-6	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Europium ⁽³⁾ (as dust)	7440-53-1	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Cerium ⁽³⁾ (as dust)	7440-45-1	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Lanthanum ⁽³⁾ (as dust)	7439-91-0	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Terbium ⁽³⁾ (as dust)	7440-27-9	0-0.1	10 ⁽²⁾	15 ⁽²⁾
Aluminum ⁽³⁾ (as dust)	7429-90-5	0-0.1	10 ⁽²⁾	15 ⁽²⁾

- (1) These chemicals are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
- (2) Limits as nuisance particulate.
- (3) These elements are contained in the material as part of its chemical structure; the material is not a mixture.
- (4) The mercury and lead in this product are substances known to the state of California to cause reproductive toxicity if ingested. [California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).]

III. PHYSICAL PROPERTIES

Not applicable to intact lamp.

IV. FIRE & EXPLOSION HAZARDS

Flammability: Non-combustible.

Fire Extinguishing Materials: Use extinguishing agents suitable for surrounding fire.

Special Firefighting Procedure: Use a self-contained breathing apparatus to prevent inhalation of dust and/or fumes that may be generated from broken lamps during firefighting activities.

Unusual Fire and Explosion Hazards: When exposed to high temperature, toxic fumes may be released from broken lamps.

V. HEALTH HAZARD

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.

NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards and/or NIOSH Pocket Guide to Chemical Hazards lists the following effects of overexposure to the chemicals/materials tabulated below when they are inhaled, ingested, or contacted with skin or eye:

Mercury - Contact, inhalation, or ingestion may cause one or more of the following symptoms: eye irritation, skin irritation, cough, chest pain, dyspnea, bronchitis, pneumonitis, tremor, insomnia, irritability, indecision, headache, fatigue, weakness, stomatitis, salivation, GI tract disturbance, anorexia, weight loss, and proteinuria.

Lead - Contact, ingestion, or inhalation may cause one or more of the following symptoms: weakness, lassitude, insomnia, facial pallor, pal eye, anorexia, weight loss, malnutrition, constipation, abdominal pain, colic, anemia, gingival lead line, tremor, wrist paralysis, ankles paralysis, encephalopathy, kidney disease, eye irritation, and hypotension.

Glass - Glass dust is considered to be physiologically inert and as such has an OSHA exposure

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VI. REACTIVITY DATA

Stability: Stable

Conditions to avoid: None for intact lamps.

Incompatibility (materials to avoid): None for intact lamps.

Hazardous Decomposition Products (including combustion products): None for intact lamps.

Hazardous Polymerization Products: Will not occur.

VII. PROCEDURES FOR DISPOSAL OF LAMPS

If lamps are broken, ventilate area where breakage occurred. Clean-up with mercury vacuum cleaner or other suitable means that avoids dust and mercury vapor generation. Take usual precautions for collection of broken glass. Clean-up requires special care due to mercury droplet proliferation. Place materials in closed containers to avoid generating dust.

It is the responsibility of the waste generator to ensure proper classification of waste products. To that end, TCLP tests should be conducted on all waste products, including this one, to determine the ultimate disposition in accordance with applicable federal, state and local regulations. Some states have specific disposal requirements for lamps containing mercury.

Lamps which pass the EPA's TCLP test are considered non-hazardous waste in most states. Always review your local and state regulations which can vary. Based upon the NEMA* Standard LL 1 / LL 5 (*Procedures for Linear / U-Shaped Fluorescent Lamp Sample Preparation and the TCLP*) testing protocol.

VIII. SPECIAL HANDLING INFORMATION - FOR BROKEN LAMPS

Ventilation: Use adequate general and local exhaust ventilation to maintain exposure levels below the PEL or TLV limits. If such ventilation is unavailable, use respirators as specified below.

Respiratory Protection: Use appropriate NIOSH approved respirator if airborne dust concentrations exceed the pertinent PEL or TLV limits. All appropriate requirements set forth in 29 CFR 1910.134 should be met.

Eye Protection: OSHA specified safety glasses, goggles or face shield are recommended if lamps are being broken.

Protective Clothing: OSHA specified cut and puncture resistant gloves are recommended for dealing with broken lamps.

Hygienic Practices: After handling broken lamps, wash hands and face thoroughly before eating, smoking or handling tobacco products, applying cosmetics, or using toilet facilities.

Although Sli LIGHTING Products, Inc. attempts to provide current and accurate information herein, it makes no representations 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.

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In case of any questions, please call:

Sli Lighting

Product Manager

(843) 464-0554

*NEMA (National Electrical Manufacturers Association) standard may be obtained from NEMA, 1300 North 17th Street, Suite 1847, Rosslyn, VA 22209.