

Issue date: 2-10-95
Revision date: 5-07-2002

Reference: Xenon Flash Lamp, General

MATERIAL SAFETY DATA SHEET

Section I - Product Identity

Manufacturers name: **PerkinElmer Optoelectronics**
Address: 44370 Christy St.
Fremont, CA 94538
Telephone number: (510) 979-6500

Product name: **XENON FLASH LAMP - QXF1093**
Manufacturers ID #: All models made without thoriated tungsten

Section II - Hazardous or Chemical Components/Ingredients *

| <u>Component</u> | <u>CAS#</u> | <u>TLV/ACGIH</u> |
|---|-------------|-----------------------------------|
| Silicon Dioxide | 7631-86-9 | 0.1 mg/m ³ (dust) |
| Tungsten / La ₂ O ₃ | 7440-33-7 | 5 mg/m ³ (dust) |
| Xenon | 7440-63-3 | N/A |
| Barium Oxide | 1304-28-5 | 0.5mg (Ba) /m ³ (dust) |
| Calcium Oxide | 1305-78-8 | 5 mg/m ³ (dust) |
| Strontium Oxide | 1314-11-0 | 5 mg/m ³ (dust) |
| Aluminum Oxide | 1344-28-1 | 10 mg/m ³ (dust) |

***NOTE:** The ingredients listed above are small quantities of the assembly within the final product. None of these items are exposed or present a hazard if the product is used and handled properly. A MSDS is not required for this product, but is included for safety precautions or if product is accidentally broken.

Section III - Physical Data

Boiling Point: N/A
Specific Gravity: N/A
Percent Volatile: N/A
Vapor Pressure: N/A
Evaporation Rate: N/A
Vapor Density: N/A
Solubility in Water: N/A
Lamp Pressure: 50-3000 TORR

Section IV - Fire and Explosion Data

Flash Point: N/A
Fire Fighting Procedures: Non-flammable
Extinguishing Limits: N/A
Explosion Limits: N/A
Hazardous Decomposition Products: N/A

Special Explosion Hazard: Addition of extreme heat or jarring of lamp may cause lamp to burst. Protective eye, face, and body equipment should be utilized when handling lamps.

Issue date: 2-10-95
Revision date: 5-07-2002

Reference: Xenon Flash Lamp, General

Section V - Health Hazard Data

These products are designed to produce high intensity ultraviolet and visible radiation. Precaution should be taken to prevent exposure to eyes and skin.

Effects of Acute Overexposure: Blindness, temporary blindness, and skin burns.

Effects of Chronic Overexposure: Blindness, cataracts, and skin cancer.

Emergency First Aid Procedures: Remove from exposure and seek medical attention.

Note: Refer to National Institute for Occupational Safety and Health Report No. NIOSH-TR-001-73 for additional information and precautions for exposure to ultraviolet radiation.

Section VI - Reactivity Data

Hazardous polymerization: N/A
Incompatibility: N/A
Stability: N/A

Section VII - Spill, Leak and Disposal Procedures

No disposal restrictions are known. User should check and follow any applicable federal, state and local regulations in disposing of any lamp.

Section VIII - Protective Equipment to be used

Appropriate eye and skin protection is to be worn when handling lamp or when exposed to lamp during operation.

Note: During operation the lamp possesses the following hazards and appropriate protective equipment to be worn:

Section VIII - Protective Equipment to be used (cont.)

Explosion - Protective eyewear minimum, face shields and protective clothing designed to withstand explosive failure is strongly recommended when close to lamp during operation.

Ultraviolet - UV blocking protective eyewear minimum during operation. Exposed skin should be covered or protected from skin burn due to UV exposure.

Issue date: 2-10-95
Revision date: 5-07-2002

Reference: Xenon Flash Lamp, General

Section IX - Special Precaution and Additional Comments
See Operating Hazards sheet enclosed with lamp.

While ILC Technology believes the data set forth herein is accurate, it makes no warranty with respect thereto and expressly disclaims all liability for relevance thereof. Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility.