



## LAMP MATERIAL INFORMATION SHEET

### MATERIAL SAFETY DATA SHEETS (MSDS)

#### Information and Applicability

The Material Safety Data Sheet (MSDS) requirements of the Occupational Safety and Health Administration (OSHA) for chemicals do not apply to manufactured articles such as lamps. During normal use and operation no materials contained in a lamp are released.

The following contains applicable Material Safety Data Sheet information

#### I. PRODUCT IDENTIFICATION

DAMAR® High Pressure Sodium Lamps

DAMAR Worldwide 4 LLC  
PO BOX 2347  
Sarasota, FL 34230-2347

#### II. LAMP MATERIALS AND HAZARDOUS INGREDIENTS

CONTENTS: This lamp consists of a high purity alumina ceramic inner tube surrounded by an outer envelope of heat-resistant glass containing less than 10% lead. The small amount of lead used in the glass does not pose a health hazard. This lamp is either clear or coated with an aluminum oxide material. The ceramic inner tube contains a small amount of sodium/mercury amalgam. The amount of amalgam ranges from 8 mg of mercury in a 50-watt lamp to 25mg in a 1000-watt lamp. The inner ceramic tube contains a fill gas of high purity xenon gas that is considered to be inert. The arc tube contains electrodes that are made from tungsten and are coated with a mix of barium calcium tungstate. Neither one of these materials presents an exposure risk due to their insolubility and physical form. This lamp uses a support structure made of stainless steel or nickel-plated iron wires.

#### III. HEALTH CONCERNS

MERCURY: Not applicable for an intact lamps. No adverse affects are expected from occasional exposure to phosphor powder dust and elemental mercury vapor due to lamp breakage. However, breaking a large number of lamps for disposal should only occur with sufficient ventilation. Ventilation and personal protective equipment such as respirators may be needed.

#### IV. DISPOSAL CONCERNS

TCLP: The test performed on these lamps for lead and mercury may cause the lamp to be classified as hazardous waste. These lamps use mercury in the arc tube and lead in the base, with levels that should pose little risk of exposure under normal handling and use. While disposing of small amounts of these lamps acceptable, state and/or local regulations may still regulate the disposal of large quantities of mercury-containing products. To check state regulations or to locate a recycler, go to <http://www.lamprecycle.org/>