

<b>Material Safety Data Sheet (MSDS)</b>	
Products : Halogen Lamps, Incandescent Lamps Series : Main-voltage halogen lamps, Reflect halogen lamps, Special lamps	
<b>PRODUCT IDENTIFICATION</b>	
Description: Halogen Lamps, Incandescent Lamps (For general lighting application).	
<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS 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 end caps 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, aside from the hazard due to broken glass.	
Lead – Less than 0.1% in weight of Lead (Pb) are presented in accordance to maximum limited set by RoHS directive (2011/65/EU).	
<b>PHYSICAL PROPERTIES</b>	
Not applicable to intact lamp.	
<b>EXPLOSION HAZARDS</b>	
When exposed to high temperature, toxic fumes may be released from broken lamps.	
<b>HEALTH CONCERNS</b>	
THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT 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 form broken lamps is the possibility of sustaining glass cuts.	
<b>Glass</b>	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.
<b>Inhalation</b>	If discomfort, irritation of symptoms of pulmonary involvement should develop, remove from exposure and seek medical attention.
<b>Ingestion</b>	In the unlikely event of ingestion of a large quantity of material, seek medical attention.

# Lichton

International Limited

Room 3, 12/F, Nam Wo Hong Building, 148 Wing Lok Street, Sheung Wan, Hong Kong.  
Tel: +852 2581 0912 Fax: +852 2581 0916

<b>Contact Eye/Skin</b>	Wash eyes/skin, including under eyelids, immediately with copious amounts of water and seek medical attention.
<b>PROCEDURES FOR DISPOSAL OF LAMPS</b>	
Take usual precautions for collection of broken glass. Place materials in closed containers to avoid generating dust. For field disposal the lead in the soldering is considered hazardous waste and must be disposed of by applicable federal, state or local regulations.	

Although we attempts to provide current and accurate information herein, it makes no representation regarding the accuracy of 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.

LICHTON INTERNATIONAL LTD