

PRODUCT SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Deuterium lamp L6382

MANUFACTURER: HAMAMATSU PHOTONICS K.K., Electron Tube Division

ADDRESS: 314-5, Shimokanzo, Iwata City, Shizuoka Pref., 438-0193, Japan

INFORMATION DEPARTMENT: Department.23

TELEPHONE NUMBER: (81)539/62-3151

2. HAZARDS IDENTIFICATION

COMPONENTS CONTRIBUTING TO THE HAZARD

Direct observation of the lamp light with the unaided eye, may cause eye injury or weak eyesight. Direct exposure to the lamp light, may cause inflammation of the skin. Touching the lighting lamp or the lamp immediately after operation, may cause a burn injury. Glass fragment may cause injury, should there be any breakage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/PREPARATION: Preparation (Article)

Parts name	Material	Chemical formula	Note
Bulb	Glass	SiO ₂	
		B ₂ O ₃	
		Na ₂ O	
Electrode	Stainless steel	Fe	
		Ni	
		Cr	
	Molybdenum	Mo	
	Tungsten	W	
	Nickel	Ni	
Heater	Alumina	Al ₂ O ₃	
	Tungsten	W	
	Thermionic emission material	Ba	
		Sr	
		Ca	
Filled gas	Deuterium gas	D ₂	< 10 mg
Stem	Kovar glass	SiO ₂	
		B ₂ O ₃	
		Na ₂ O	
	Kovar metal	Co	
		Fe	
		Ni	
Lead wire	Copper-Nickel line	Cu	
		Ni	
	Silicone flexible tube	-	RoHS acceptable
Terminal	Copper-Nickel	Cu	
		Ni	
	Insulation coating	-	RoHS acceptable
	8GB Base	--	RoHS acceptable
	Pb free solder	Sn	
		Ag	
		Cu	
Inorganic adhesive	SUMISERAM®	--	RoHS acceptable
	RTV Rubbers	--	RoHS acceptable

4. FIRST AID MEASURES

IN CASE THE LAMP IS BROKEN OUT OF OPERATION:

Put all wastes in a container for disposal. Entrust a licensed industrial waste disposal firm.

IN CASE THE LAMP IS BROKEN DURING OPERATION:

After lamp and lamp housing are cooled down, put all wastes in a container for disposal. Entrust a licensed industrial waste disposal firm.

5. FIRE FIGHTING MEASURES

Lamp itself is not combustible. The heat of the lamp may cause a fire.
Extinguish a fire with proper extinguisher. Turn off the lamp.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective gloves.

7. HANDLING AND STORAGE

HANDLING: Do not look directly at the light. Strong ultraviolet light can cause visual disorder. Do not touch the lamp during operation or just after turned off because of high temperature. Do not allow light to come into contact with skin. Always turn on the lamp in the lamp housing. Lamp housing should include structure that prevents glass fragment from flying, should there be any breakage.

Before replacing or cleaning the lamp, always switch it off. Do not operate in locations subject to high humidity. Never touch the lamp glass. Wipe it with an alcohol-soaked cloth for cleaning. Do not look directly at the lamp.

STORAGE: Store in a special container at room temperature. Keep it tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COUNTERMEASURE AT EQUIPMENT: Turn on the lamp power supply. Operate in the lamp housing.

PERSONAL PROTECTION: Wear protective clothing so as not to expose the skin to ultraviolet light

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid (Lamp)

COLOR: the glass portion: transparent

The others: metallic color

ODOR: Odorless

DECOMPOSITION TEMPERATURE: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary condition

HAZARDOUS DECOMPOSITION PRODUCTS: This equipment emits ultraviolet light and heat. Keep away from materials acting on.

11. TOXICOLOGICAL INFORMATION

LOCAL EFFECTS: Ultraviolet light can cause eye or skin inflammation.

12. ECOLOGICAL INFORMATION

AMBIENT IMPACT: Not available
BIODEGRADABILITY: Not available
BIOACCUMULATION POTENTIAL: Not available
ECO TOXICITY: Not available
OTHER INFORMATION: Not available

13. DISPOSAL CONSIDERATION

Dispose properly in full compliance with Waste Management Law or entrust a licensed industrial waste disposal firm. Never attempt to break lamp. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency specific rules).

14. TRANSPORT INFORMATION

This product doesn't have the UN number, because it conforms "IATA Dangerous Goods Regulations".

Use special packaging.

This "special packaging" is exclusive box for "Deuterium lamp" which is made by Hamamatsu Photonics.

The outside box is coated paper, and the internal buffer material is polyurethane foam.

15. APPLICABLE LAW

MANAGEMENT AND PROMOTION LAW ON CHEMICAL MATERIAL: Not applicable
POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: Not applicable
INDUSTRIAL SAFETY AND HEALTH ACT: Not applicable

16. INFORMATION ON OTHERS

REFERENCES CITED: Nothing

The above information is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. This information is intended to be used under ordinary conditions.