HARBOR FREIGHT TOOLS

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: FLUORESCENT MAGNIFYING LAMP 12 Chemical Name NA 1.3 Synonyms P/N 60643 1.4 Trade Names Harbor Freight Tools 1.5 Product Uses & Restrictions: Fluorescent Bulb 1.6 Distributor's Name Harbor Freight Tools USA, Inc. 1.7 Distributor's Address: 26541 Agoura Road, Calabasas, CA 91302 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687) 1.9 Business Phone / Fax: +1 (805) 388-1000 2. HAZARDS IDENTIFICATION Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS 2.1 according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia). This item is a light bulb made from glass and metal. The glass tube is manufactured is essentially similar but not identical to that used throughout the glass industry for bottles and other common consumer items. The end-caps are generally made from, lead and brass. The SDS required by OSHA does not apply to manufactured articles. No material contained in bulb is released during normal use and operation. Take normal care with broken glass. WARNING! HARMFUL IF SWALLOWED. Classification: Acute Tox. 4 Hazard Statements (H): H302 - Harmful if swallowed. Precautionary Statements (P): P264 - Wash exposed skin areas thoroughly with soap and water after handling. P270 - Do not eat drink or smoke when using this product. P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-CAS No RTECS No EINECS No sт TW PEA PE STE IDLH OTHER CHEMICAL NAME(S) STE LAMP ASSEMBLY: NA NA NA 60-100 NA NA NF NF NF NA NA NA INERT INGREDIENTS: GLASS, METAL PARTS NA NA NA NA 2.5 NA 2.5 NF NF 2.5 NA NA Nuisance Dust PHOSPHORUS POWDER 4. FIRST AID MEASURES First Aid: 4.1 Normal first aid procedure for glass cuts if such occur through bulb breakage. Immediately flush eyes with plenty of water for at least 15 minutes. Do not apply neutralizing agents. Get Eyes: medical attention, if irritation persists. Skin: Immediately wash skin with plenty of water and soap while removing contaminated clothing and shoes. Wash clothing separately before reuse. Do not remove clothing if it sticks to the skin. In all other cases of skin contact, consult medical service if irritation persists. Get medical attention, if irritation persists. Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Inhalation: If overcome by vapor, remove person from exposure to fresh air. If breathing is irregular or has stopped, start resuscitation and administer oxygen. Get medical attention immediately. 4.2 Effects of Exposure: None of the materials present a potential hazard in the event of breakage of the lamp, aside from the Ingestion: hazard due to broken glass ... Eyes: None of the materials present a potential hazard in the event of breakage of the lamp, aside from the hazard due to broken glass ... Skin: None of the materials present a potential hazard in the event of breakage of the lamp, aside from the hazard due to broken glass Inhalation: None of the materials present a potential hazard in the event of breakage of the lamp, aside from the hazard due to broken glass.

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		4. FII	RST AID MEASU	RES – conť	d		
4.3	Symptoms of Overexposure:	Eyes: Intact lamp	has no known exposure h	azards.			
			has no known exposure h				
			has no known exposure eek medical attention.	e hazards. In the	unlikely event of ing	gestion of a large	e quantity of
			o has no known expos it should develop, remove				f pulmonary
4.4	Acute Health Effects:		has no known exposure h				
			has no known exposure				
			oowder dust. No adverse a of good practice, prolonge				n lamps, but
			has no known exposure				e quantity of
			ek medical attention.			geotion of a large	s quantity of
			has no known exposure				
			oowder dust. No adverse a of good practice, prolonge				n lamps, but
4.5	Chronic Health Effects:	None reported by the mar					
4.6	Target Organs:	Eyes, Skin, Central Nervo					
4.7	Medical Conditions Aggravated by Exposure:	None reported by the mar	nufacturer.		HEALTH		1
					FLAMMABILIT		0
					PHYSICAL HA	-	0
					PROTECTIVE	EQUIPMENT	B
					EYES SKI	N	
		5.	FIREFIGHTING N	IEASURES			
5.1	Fire & Explosion Hazards:	Under extreme heat, glas be released from broken	ss may melt or crack. Whe	n exposed to high	temperatures toxic for	umes may	
5.2	Extinguishing Methods:	Water, Dry Chemical, For					
5.3	Firefighting Procedures:		til well after the fire is out	. Prevent runoff fro	om fire control or dil	ution from	
		entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full-face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious clothing.					
		6. ACC	IDENTAL RELEA	SE MEASU	RES		
6.1	Spills:	Equipment. Normal prec avoid generating dust. I elemental mercury vapor. good practice, prolonged of large quantities of lar standards for the general to clean up any residue. up any residues from this	Ill or leak, individuals inv cautions should be taken f Breakage of the lamp ma . No adverse effects are ex or frequent exposure shoum mps. The promethium is public. If product is crush Use a wet method or vacu s product. Waste must b Ils and cleaning runoffs ou	or collection of bro ay result in some expected from occass uld be avoided thro in the form of a ued, use respiratory uums equipped wit e placed in dust ti	oken glass. Place ma exposure to the pho sional exposure to br ugh the use of adequ small piece of wire protection equipment h High Efficiency Par ght containers or se	aterials in closed osphor powder d oken lamps, but a uate ventilation du below any know nt. Do not use co rticulate (HEPA) f aled plastic bags	containers to ust and/or to as a matter of uring disposal vn applicable ompressed air ilters to clean
		• • • • • • • •	_	•	•		
	r		LING & STORAG				
7.1	Work & Hygiene Practices:	lamp.	bly to handling product to	-		-	
7.2	Storage & Handling:	General precautions app place heavyweight things	ly to handling product to a on this product.	avoid breakage. Us	se extreme care for	handling broken g	glass. Do not
7.3	Special Precautions:	Avoid inhalation of any ai	irborne dust from broken la	amp. Provide local	exhaust when dispos	sing large quantiti	es of lamps.
		8 EXPOSURE	CONTROLS & PE		POTECTION		
8.1	Exposure Limits:			NOHSC		OSHA	OTHER
0.1	ppm (mg/m ³)	CHEMICAL NAME(S) PHOSPHORUS POWDER	TLV STEL 2.5 NA	ES-TWA ES-STE 2.5 NF		STEL IDLH	DUST
8.2	Ventilation & Engineering Controls:	Use local or general exha	aust ventilation to effective Ensure appropriate dec	ely remove and pre	event buildup of vapo	ors or mist genera	ated from the
8.3	Respiratory Protection:	necessary, use only re	protection is required un spiratory protection auth- U.S. state regulations, or stralia.	orized per U.S.	OSHA's requiremen	t in 29 CFR	

12.3

Effects on Aquatic Life:

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		EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.4	Eye Protection:	Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling large quantities of this product. Always use protective eyewear when cleaning broken lamp tubes. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. Have suitable eye wash water available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
8.5	Hand Protection:	Use protective gloves when handling broken lamp tubes. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the EU member states.
8.6	Body Protection:	No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	White bulb, metal base
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	NA
.12	Solubility:	NA
.13	Partition Coefficient (log Pow):	NA
.14	Autoignition Temperature:	NA
.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA
		10. STABILITY & REACTIVITY
10.1	Stability:	This product is stable
10.2	Hazardous Decomposition	NA
10.2	Products:	
10.3	Hazardous Polymerization:	NA
10.4 10.5	Conditions to Avoid: Incompatible Substances:	Open flames, sparks, high heat, and proximity to incompatible substances.
10.5	incompatible Substances.	Glass will react with hydrofluoric acid.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: NO Absorption: YES Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, i available for some of the components of the product, but is not presented in this document.
1.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	Lead is listed as ACGIH Group A3 (Confirmed animal carcinogen with unknown relevance to human); IARC Group 2E (Possibly carcinogenic to humans); NTP13 Group 2 (Reasonably Anticipated to be a Human Carcinogen); CA62 (cancer).
11.6	Reproductive Toxicity:	Lead is not reported to cause reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	Lead is not reported to cause reproductive toxicity in humans.
1.7	Irritancy of Product:	NA
1.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	This product is supplied as a sealed unit and, as such, should not present a hazard to the environment.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.

There are no specific data available for this product.

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13.1 13.2

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	13. DISPOSAL CONSIDERATIONS
Waste Disposal:	Dispose of in accordance with federal, state, provincial and local regulations.
Special Considerations:	NA

14. TRANSPORTATION INFORMATION

The I	The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional					
desc	descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.					
14.1	49 CFR (GND):	NOT REGULATED				
14.2	IATA (AIR):	NOT REGULATED				
14.3	IMDG (OCN):	NOT REGULATED				
14.4	TDGR (Canadian GND):	NOT REGULATED				
14.5	ADR/RID (EU):	NOT REGULATED				
14.6	SCT (MEXICO):	NOT REGULATED				
14.7	ADGR (AUS):	NOT REGULATED				

		15. REGULATORY INFORMATION		
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.		
15.2	SARA Threshold Planning Quantity:	NA		
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory or are otherwise exempt.		
15.4	CERCLA Reportable Quantity (RQ):	NA		
15.5	Other Federal Requirements:	Lead (and its compounds) is listed as a Hazardous Air Pollutant (HAP). Lead (and its compounds) is listed as a Toxic Pollutant under the Clean Water Act (CWA). Lead (and its compounds) is listed as Priority Pollutants under the Clean Water Act (CWA). This product does not contain any Class 1 or Class 2 ozone depletors.		
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS: NA		
15.7	State Regulatory Information:	Lead can be found on the following state criteria list(s): California Proposition 65 (CA65), Florida Toxic Substances List (FL), Illinois Hazardous Substances List (IL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Rhode Island Hazardous Substances List (RI), and Washington Permissible Exposures List (WA).		
		 None of the other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI) Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). WARNING: This product contains a substance(s) known to the State of California to cause cancer, birth defects or othe 		
		reproductive harm. California law requires this warning be given to customers in the State of California.		
15.8	Other Requirements:	The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Harmful (Xn) <u>Risk Phrases</u> (R): 20 – Harmful by inhalation. <u>Safety Phrases</u> (S): (1/2)-45-61 – Keep locked up and out of reach of children. In case of accident or if you feel unwell seek medical advice immediately (show label where possible). Avoid release to the environment. Refer to special instructions/safety data sheet.		

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		16. OTHER INFO	ORMATION	
16.1	Other Information:	WARNING! HARMFUL IF SWALLOWED. This item is a manufactured light bulb made from class and metal. The SDS required by OSHA does not apply to manufactured articles. No material contained in bulb is released during normal use and operation. Take normal care with broken glass. Wash exposed skin areas thoroughly with soap and water after handling. Do not eat drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. WARNING: This product contains a substance(s) known to the State of California to cause cancer, birth defects or other reproductive harm.		
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.		
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Harbor Freight Tools USA, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.		
16.4	Prepared for:	Harbor Freight Tools USA, Inc. 26541 Agoura Road Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com/		
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com		

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
---------	----------------------------------

EXPOSURE LIMITS IN AIR:

FIRST AID MEASURES:

CPR	CPR Cardiopulmonary resuscitation - method in which a person whose heart has			
	stopped receives manual chest compressions and breathing to circulate bloo			
	and provide oxygen to the body.			

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

Α	6		G			
в	0		н			
С		E 1	I			
D	B	E.J.	J) 🗿	
Е			κ			
F			Х		r supervisor or ling directions.	
Sa	afety Glasses	Splash Goggles		e Shield & tive Eyewear	Gloves	5
Boots Synthe		Synthetic Apron	Protec &	tive Clothing Full Suit	Dust Respi	rator
Full Face Respirator				ull Face espirator	Airline Hood or SCB	
отн	OTHER STANDARD ABBREVIATIONS:					

OTHER STANDARD ABBREVIATIONS:

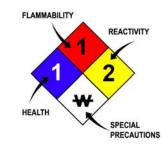
ML	Maximum Limit	
mg/m3	milligrams per cubic meter	
NA	Not Available	
ND	t Determined	
NE	ot Established	
NF	Not Found	
NR	No Results	
ppm	pm parts per million	
SCBA	Self-Contained Breathing Apparatus	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

Autoignition Minimum temperature required to initiate combustion in air with no other source of ignition LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, that will
explode or ignite in the presence of an ignition source
UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that will
explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			
ACD	ACD Acidic			
ALK	Alkaline			
COR	Corrosive			
₩	Use No Water			
OX	Oxidizer			
TREFOIL	Radioactive			



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals				
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm	Concentration expressed in parts of material per million parts				
TD _{Io}	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects				
TC, TC _o , LC _{lo} , & LC _o					
IARC	International Agency for Research on Cancer				
NTP	National Toxicology Program				
RTECS	Registry of Toxic Effects of Chemical Substances				
BCF	Bioconcentration Factor				
TLm	Median threshold limit				
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution				

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NOHSC	National Occupational Health and Safety Commission (Australia)
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٨		Ð	۲		Ŕ
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

V		N	¥	8	.	×	×
С	E	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizina	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\diamondsuit			(:)		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environ- ment