

ITEM: 2YGF6 - High Pressure Sodium Lamp ED17 70W**MSDS: C5201****ORDER: 0130705975****LP NUMBER: U841563991****MATERIAL SAFETY DATA SHEET (MSDS)****This MSDS should be attached or kept with the respective product with which it is associated.****MATERIAL SAFETY DATA SHEET - C5201**

Associated Grainger Items

2YGF7, 2YGF6, 2YGF3, 2YGF9, 2YGF4, 2YGF8, 2YGF1, 2YGF5, 2YGF2, 2YGG1, 2YGG2

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WESTINGHOUSE

HIGH PRESSURE SODIUM LAMP

MATERIAL SAFETY DATA SHEET (MSDS)

HIGH PRESSURE SODIUM LAMPS - ED17, ED23 1/2, ET18 AND ET25

INFORMATION AND APPLICABILITY:

WESTINGHOUSE LIGHTING CORPORATION BELIEVES THAT UNDER THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAZARDS COMMUNICATIONS STANDARD, A LAMP (LIGHT BULB) IS EXEMPTED AS AN "ARTICLE" SO IT DOES NOT REQUIRE AN MSDS. THE ORIGINAL OSHA STANDARD DEFINED AN ARTICLE AS SOMETHING THAT:

- 1) IS FORMED TO A SPECIFIC SHAPE AND DESIGN
- 2) HAS END USE FUNCTIONS DEPENDENT UPON ITS SHAPE AND DESIGN, AND
- 3) DOES NOT RELEASE OR OTHERWISE RESULT IN AN EXPOSURE TO A HAZARDOUS CHEMICAL UNDER NORMAL CONDITIONS OF USE.

IN FEBRUARY, 1994, OSHA AMENDED THE HAZARD COMMUNICATION STANDARD AND MODIFIED PART 3 OF THE ABOVE TO READ:

- 3) DOES NOT RELEASE MORE THAN VERY SMALL QUANTITIES OF A HAZARDOUS CHEMICAL UNDER NORMAL CONDITIONS OF USE. STATE AND LOCAL REGULATIONS ALSO CONTAIN SIMILAR EXEMPTIONS FOR SUCH ARTICLES.

HAZARDOUS MATERIALS ARE NOT RELEASED DURING NORMAL USE AND OPERATION OF THESE LAMPS.

PRODUCT AND COMPANY IDENTIFICATION

THESE LAMPS PROVIDE EFFICIENT LIGHTING SOLUTIONS FOR OUTDOOR SECURITY, PARKING GARAGE, PARKING LOT, ROADWAY LIGHTING AND AREA LIGHTING APPLICATIONS.

ALL HIGH PRESSURE SODIUM LAMPS REQUIRE SPECIFIC BALLASTS AND STARTERS AT THE LIGHTING SOURCE FOR CORRECT OPERATION.

MANUFACTURER:
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HAZARDOUS INGREDIENTS

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT. IF LAMP IS BROKEN, SOME OF THE FOLLOWING MATERIALS MAY BE RELEASED:

CHEMICAL NAME	CAS NUMBER	% BY WT.	EXPOSURE LIMITS IN AIR	
			(MG/CUBIC M) ACGIH (TLV)	OSHA (PEL)
(1) BARIUM COMPOUNDS (AS EA)	7440-39-3	0.02-<0.1	0.5	.05
(1,2) LEAD SOLDER (AS Pb)	7439-92-1	0.1-<1.1	0.15	0.05
SODIUM	7440-23-5	0.0003-<0.01		
(1) MERCURY	7439-97-6	0.01-<0.05	0.025	0.1 CEILING
(1,2) GLASS (LEAD BOROSILICATE)		50-75	10 (3)	15 (3)
(1,2) (AS LEAD OXIDE, 6%)	1317-36-8		0.15	0.05
ALUMINUM OXIDE	1344-28-1	<15	10 (3)	15 (3)

(1) THESE CHEMICALS ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

(2) THE LEAD IN THIS PRODUCT IS ONE OF THE SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE TOXICITY IF INGESTED. CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986)

(3) LIMITS AS NUISANCE PARTICULATE

CHEMICAL/PHYSICAL DATA

NOT APPLICABLE TO INTACT LAMP.

FIRE AND EXPLOSION DATA

FLAMMABILITY: NON-COMBUSTIBLE

FIRE EXTINGUISHING MATERIALS:

USE EXTINGUISHING AGENTS SUITABLE FOR SURROUNDING FIRE.

SPECIAL FIREFIGHTING PROCEDURE:

USE A SELF-CONTAINED BREATHING APPARATUS TO PREVENT INHALATION OF DUST AND/OR FUMES THAT MAY BE GENERATED FROM BROKEN LAMPS DURING FIREFIGHTING ACTIVITIES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

WHEN EXPOSED TO HIGH TEMPERATURE, TOXIC FUMES MAY BE RELEASED FROM BROKEN LAMPS.

REACTIVITY DATA

STABILITY: LAMP IS STABLE.

CONDITIONS TO AVOID: NONE FOR INTACT LAMPS

INCOMPATIBILITY (MATERIALS TO AVOID): NONE FOR INTACT LAMPS

HAZARDOUS DECOMPOSITION PRODUCTS: NONE FOR INTACT LAMPS

HAZARDOUS POLYMERIZATION PRODUCTS: WILL NOT OCCUR.

HEALTH CONCERNS:

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE 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 FROM BROKEN LAMPS IS THE POSSIBILITY OF BEING CUT BY THE BROKEN GLASS.

EFFECTS OF OVEREXPOSURE TO BROKEN LAMPS BY INHALATION, INGESTION, OR CONTACT (SKIN OR EYE):

BARIUM COMPOUNDS:

ALKALINE BARIUM COMPOUNDS, SUCH AS THE HYDROXIDE AND CARBONATE, MAY CAUSE LOCAL IRRITATION TO THE EYES, NOSE, THROAT, AND SKIN.

LEAD:

INGESTION AND INHALATION OF LEAD DUST OR FUME MUST BE AVOIDED. IRRITATION OF THE EYES AND RESPIRATORY TRACT MAY OCCUR. EXCESSIVE LEAD ABSORPTION IS TOXIC AND MAY INCLUDE SYMPTOMS SUCH AS ANEMIA, WEAKNESS, ABDOMINAL PAIN, AND KIDNEY DISEASE. HOWEVER, THE CHEMICAL INERTNESS AND INSOLUBILITY OF THIS MATERIAL IS EXPECTED TO REDUCE THE POTENTIAL FOR SYSTEMIC LEAD TOXICITY.

SODIUM:

SKIN CONTACT CAN CAUSE THERMAL AND/OR ALKALI BURNS. FUMES FROM BURNING SODIUM ARE HIGHLY IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.

MERCURY:

EXPOSURE TO HIGH CONCENTRATIONS OF VAPORS FOR BRIEF PERIODS CAN CAUSE ACUTE SYMPTOMS SUCH AS PNEUMONITIS, CHEST PAINS, SHORTNESS OF BREATH, COUGHING, GINGIVITIS, SALIVATION AND POSSIBLE STOMATITIS. MAY CAUSE REDNESS AND IRRITATION AS A RESULT OF CONTACT WITH SKIN AND/OR EYES.

GLASS:

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.

ALUMINUM OXIDE:

ALUMINA IS A NON-TOXIC MATERIAL WHICH IS VERY LOW IN FREE SILICA CONTENT. SHARP-EDGED PARTICLES CAN IRRITATE THE EYES, PERHAPS THE SKIN, AND DEFINITELY THE MUCOUS MEMBRANES OF THE RESPIRATORY TRACT.

EMERGENCY FIRST AID**GLASS CUTS:**

PERFORM NORMAL FIRST AID PROCEDURES. SEEK MEDICAL ATTENTION AS REQUIRED.

INHALATION:

IF DISCOMFORT, IRRITATION OR SYMPTOMS OF PULMONARY INVOLVEMENT DEVELOP, REMOVE FROM EXPOSURE AND SEEK MEDICAL ATTENTION.

INGESTION:

IN THE UNLIKELY EVENT OF INGESTING A LARGE QUANTITY OF MATERIAL, SEEK MEDICAL ATTENTION IMMEDIATELY.

CONTACT SKIN:

THOROUGHLY WASH AFFECTED AREA WITH MILD SOAP OR DETERGENT AND WATER AND PREVENT FURTHER CONTACT. SEEK MEDICAL ATTENTION AS NEEDED.

CONTACT EYE:

WASH EYES, INCLUDING UNDER EYELIDS, IMMEDIATELY WITH COPIOUS AMOUNT OF WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.

CARCINOGENIC ASSESSMENT (NTP ANNUAL REPORT, IARC MONOGRAPHS, OTHER): NONE

PRECAUTIONS FOR SAFE HANDLING AND USE

IF LAMPS ARE BROKEN, VENTILATE AREA WHERE BREAKAGE OCCURRED. CLEAN-UP BY VACUUMING OR OTHER METHOD THAT AVOIDS DUST GENERATION. TAKE USUAL PRECAUTIONS FOR COLLECTION OF BROKEN GLASS. PLACE MATERIALS IN CLOSED CONTAINERS TO AVOID GENERATING DUST.

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO ENSURE PROPER CLASSIFICATION OF WASTE PRODUCTS. TO THAT END, TCLP TESTS SHOULD BE CONDUCTED ON ALL WASTE PRODUCTS, INCLUDING THIS ONE, TO DETERMINE THE ULTIMATE DISPOSITION IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

CONTROL MEASURES**VENTILATION:**

USE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW THE PEL OR TLV LIMITS. IF SUCH VENTILATION IS UNAVAILABLE, USE RESPIRATORS AS SPECIFIED BELOW.

RESPIRATORY PROTECTION:

USE APPROPRIATE NIOSH APPROVED RESPIRATOR IF AIRBORNE DUST CONCENTRATIONS EXCEED THE PERTINENT PEL OR TLV LIMITS. ALL APPROPRIATE REQUIREMENTS SET FORTH IN 29 CFR 1910.134 SHOULD BE MET.

EYE PROTECTION:

OSHA SPECIFIED SAFETY GLASSES, GOGGLES OR FACE SHIELD ARE RECOMMENDED FOR DEALING WITH BROKEN LAMPS.

PROTECTIVE CLOTHING:

OSHA SPECIFIED GLOVES ARE RECOMMENDED FOR DEALING WITH BROKEN LAMPS.

HYGIENIC PRACTICES:

AFTER HANDLING BROKEN LAMPS, WASH THOROUGHLY BEFORE EATING, SMOKING OR USING TOILET FACILITIES.

PROCEDURE FOR DISPOSAL OF LAMPS

TAKE THE USUAL PRECAUTIONS FOR GETTING RID OF BROKEN GLASS. PLACE MATERIALS IN CLOSED CONTAINERS TO AVOID GENERATING DUST. A TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) WAS CONDUCTED ON THESE PRODUCTS SHOWING THE MERCURY CONTENT IN THESE LAMPS IS NOT CONSIDERED HAZARDOUS WASTE. FOR FIELD DISPOSAL, THE LEAD IN THE SOLDERING IS CONSIDERED HAZARDOUS WASTE AND MUST BE DISPOSED OF BY APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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