MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Click http://www.lookchem.com/cas-744/7440-53-1.html for suppliers of this product.

Composition/Information on Ingredient

USE APROPRIATE NIOSH APPROVED RESPIRATOR IF AIRBORNE DUST CONCEN EXCEED PERTINENT PEL OR TLV

USE GENERAL AND LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW PEL/TLV LIMITS. IF SUCH

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

DISPOSAL: CONTAINS CHEMICALS SUBJECTTO REPORTING REQMTS OF SEC 313 TITLE III SARA/40CFR PART372:

LIMITS. ALL APPROPRIATE REQMTS SET FORTH IN 29CFR1910.134 SHOULD BE MET. 12

OSHA SPEC SAFTY GLASSES/GOGGLES / FACE SHIELD IF HANDLING BROKEN GLASS

7440-53-1 Code:

RTECS:

Code:

Name:

NΡ

NΡ Code:

OSHA PEL: 15 MG/M3 Code:

OSHA STEL:

ACGIH TLV: 10 MG/3 Code: Μ

ACGIHSTEL:

Ventilation:

Protective Gloves:

Eye Protection:

Other Protective Equipment:

Supplemental Safety and Health:

MERCURY, LEAD OXIDE, PHOSPHOR.

Health Hazards Data

NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation:

Carcinogenicity Inds - NTP:

Health Hazards Acute And Chronic:

Explanation Of Carcinogenicity:

Spill Release Procedures:

Waste Disposal Methods:

Neutralizing Agent:

Other Precautions:

Flash Point Text: NON-COMBUSTIBLE

Autoignition Temp:

Lower Limits:

Boiling Point:

Melt/Freeze Pt:

Decomp Text:

Vapor Pres: N/A

VOC Pounds/Gallon:

Evaporation Rate & Reference:

Corrosion Rate:

Stability Indicator:

Materials To Avoid: NONE FOR INTACT LAMPS.

Information:N/P

Information:N/P

NONE FOR INTACT LAMPS.

Reactivity Data

Stability Condition To Avoid: NONE FOR INTACT LAMPS.

Hazardous Decomposition Products:

MSDS Transport Information

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Look for Chemicals

www.lookchem.com

Other Information:N/P

N/A

NO

N/A

B.P. Text: N/A

Autoignition Temp Text:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard:

LAMPS DURING FIREFIGHTING ACTIVITIES.

Physical/Chemical Properties

Signs And Symptions Of Overexposure:

PROLIFERATION. PLACE IN CLOSED CONTAINER.

NONE SPECIFIED BY MANUFACTURER. 11

Handling And Storage Precautions:

PER MSDS:CARCINOGENIC ASSESSMENT(NTP/IARC/OTHER):NONE.

Work Hygienic Practices:

LD50LC50Mixture:

Skin: NO

IARC: NO

OSHA:

Ingestion: NO

Control Measures

VENTI UNAVAILABLE USE RESPIRATOER AS SEPCIFIED.

OSHA SPEC GLOVES FOR BROKEN LAMP HNDLG.

Equipment NONE SPECIFIED BY MANUFACTURER.

Respiratory Protection:

NΡ Code:

EUROPIUM (AS DUST)

Other REC Limits:

LIMIT IS 15 MG/M3 FOR TOTAL DUST AND 5 MG/M3 FOR RESPIRABLE DUST. Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER. First Aid: GLASS CUTS: PERFOM NORMAL 1STAID PROCEDURES. SEEK MED ATTENTION AS REQUIRED. INHAL: REMOVE FROM EXPOSURE. SEEK MED ATTN. INGEST: SEEK MED ATTN. SKIN: WASH THOROUGHLY W/MILD SOAP/WATER. PREVENT FURTHER CON TACT. IRRIT OCCURS SEEK

MED ATTN. EYE: WASH INCLUDING UNDER EYELIDS IMMED W/COPIOUS AMTS OF WATER FOR 15MINS. SEEK MED ATTN.

VENTIALTE AREA WHERE BREAKAGE OCCUR. CLEANUP W/HG VAC CLEANER/OTHER SUITABLE MEANS THAT AVOID DUST/HG VAP GENERATION. TAKE USUAL PRECAUT FOR COLLECTION OF BROKEN GLASS. CLEANUP REQURED SPEC CARE DUE TO HG DROPLET

IT'S RESPONSIBILITY OF WASTE GENERATOR TO ENSURE PROPER CLASSIFICATION OF WASTE PRODS. TO THAT END TCLP TESTS SHOULD BE CONDUCTED ON ALL WASTE PROD INCLUDING THIS ONE TO DETERMINE ULTIMATE DISPOSITION IAW APPLIABLE

PER MSDS:SYLVANIA BRAND FLUORESCENT LAMPS MFG BY OSRAM SYLVANIA INC ARE EXEMPTED FROM OSHA HAZ COMM STD REQMTS

FED/STATE/LOC REGS. LAMPS MARKED "ECO" PASS THE TCLP TEST AND ARE CONSIDERED NON-HAZAR DOUS.

BECAUSE THEY'RE ARTICLES. NFO ON MSDS PROVIDED BY OSRAM SYLVANIA AS COURTESY TO CUSTOMERS.

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 PRLONGED/FREQUEN T EXPOSURE TO BROKEN LAMPS UNLESS THERE IS ADEQUATE VENTILATION. MAJOR HAZ FROM BROKEN LAMPS IS THE POSSIBLITY OF SUSTAINING GLASS CUTS.

TO BROKEN LAMPS BY INHAL/INGEST/SKIN/EYE:HG:ACUTE SYMPT-EYE AN SKIN IRRITATION, COUGH,CHEST PAINS,SHORTNESS OF BREATH, GINGIVITIS, SALIVATION, STOMATITIS.REDNESS. PB:IRRIT EYE/RESP TRACT.EXCESS ABSOR PTION-TOXIC, SYPMT-

ANEMIA, WEAK, ABD PAIN, KID DISEASE. GLASS: PHYSIOLOGICAL INERT. PHOSPHOR: CONSIDERED AS BENIGN, AND SUCH OSHA EXPOSURE

Flash Point Method: N/P Flash Point:

Fire and Explosion Hazard Information

NONE SPECIFIED BY MANUFACTURER. GLASS, HANDLE WITH CARE.

Upper Limits: N/A Extinguishing Media: USE EXTINGUISHING AGENTS SUITABLE FOR SURROUNDING FIRE.

USE SELF-CONTAINED BREATHING APPARATUS TO PREVENT INHAL OF DUST &/OR FUMES THAT MAY BE GENERATED FROM BROKEN

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

NRC/State LIC No: **Net Prop WT For Ammo:**

M.P/F.P Text: N/A **Decomp Temp:**

Vapor Density: Volatile Org Content %: Spec Gravity:

PH: N/A 13 **VOC Grams/Liter:** Viscosity:

Solubility in Water: **Appearance and Odor:** FLUORESCENT LAMPS **Percent Volatiles by Volume:** N/A

Hazardous Polymerization Indicator: Conditions To Avoid Polymerization: NOT APPLICABLE **Toxicological Information**

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terms and conditions of sale.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional