

SE-9466

MATERIAL SAFETY DATA SHEET

IDENTITY: Spectrum Tube, Mercury (ETP Product No. 20702)

SECTION I

MANUFACTURER: Electro-Technic Products, Inc.	EMERGENCY TELEPHONE NUMBER 312-561-2349
ADDRESS 4642 N. Ravenswood Ave. Chicago, IL 60640-4592	TELEPHONE FOR INFORMATION 312-561-2349
	FAX NUMBER FOR INFORMATION 312-561-3130

DATE PREPARED August 7, 1989

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS	% (OPT)
Mercury (Hg)	0.1 mg/m ³	0.05 mg/m ³		

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT (deg C) 357 deg C	SPECIFIC GRAVITY (H ₂ O=1) 13.54
VAPOR PRESSURE (Torr) 1.2 x 10 ⁻⁶	MELTING POINT (deg C) -39 deg C
VAPOR DENSITY (AIR=1) 7.0	EVAPORATION RATE (BUTYL ACETATE=1) Less than 1
SOLUBILITY IN WATER Insoluble	APPEARANCE AND ODOR Silver liquid, odorless

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED) Does not apply	FLAMMABLE LIMITS	LEL	UEL
EXTINGUISHING MEDIA	Does not apply		
SPECIAL FIRE FIGHTING PROCEDURES	None		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Avoid breathing vapors		

SECTION V - REACTIVITY DATA

Spectrum Tube, Mercury

STABLE (Y/N) Y CONDITIONS TO AVOID May ignite combustibles

INCOMPATIBILITY (MATERIALS TO AVOID) Acetylinic compounds, boron ammonia, ethylene oxide, metals, oxygen, bromine, nitric acid, and other similar chemicals

HAZARDOUS DECOMPOSITION PRODUCTS Mercury vapors and oxygen

HAZARDOUS POLYMERIZATION (Y/N) N CONDITIONS TO AVOID None

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY	INHALATION? Yes	SKIN? Yes	INGESTION? Yes
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HEALTH HAZARDS (ACUTE AND CHRONIC) Mercury liquid and vapor is toxic due to its liquid solubility and membrane permeability. Inhaled vapors diffuse rapidly through alveolar membranes into the blood and are systemically transported to body tissue. It can be slowly adsorbed through the skin.

CARCINOGENICITY	NTP	IARC MONOGRAPHS	OHS A REGULATED
Unknown	No	No	No

SIGNS AND SYMPTOMS OF EXPOSURE Irritation of skin, eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None from the small amount of mercury contained in the tube.

EMERGENCY AND FIRST AID PROCEDURES Eye contact: flush with running water for 15 minutes, including under the eyelids. Skin contact: remove contaminated clothing. Wash affected area with soap and water. Inhalation: Move person to fresh air.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Clean up broken glass and approximately 50 mg of liquid mercury

WASTE DISPOSAL METHOD Take up mercury with sand or other absorbent material and place into container for later disposal. A mercury spill kit may also be used.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Sharp glass fragments. Do not touch spilled mercury.