SE-9466

ELECTRO-TECHNIC PRODUCTS INC.

4642 N. RAVENSWOOD, CHICAGO, ILLINOIS 60640-4510
PHONE: (773) 561-2349 • FAX: (773) 561-3130

MATERIAL SAFETY DATA SHEET

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

SECTION I

MANUFACTURER: Electro-Technic Products, Inc.	EMERGENCY TELEPHONE NUMBER 773-561-2349
ADDRESS 4642 N. Ravenswood Ave. Chicago, IL 60640-4510	TELEPHONE FOR INFORMATION 773-561-2349
	FAX NUMBER FOR INFORMATION 773-561-3130
DATE PREPARED	September 22, 2006

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS	% (OPT)
Mercury (Hg)	0.1 mg/m³	0.025 mg/m3		

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT (deg C) 357 deg C	SPECIFIC GRAVITY (H_2O=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)	FLAMMABLE LIMITS	LEL	UEL
Does not apply			

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

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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?	SKIN?	INGESTION?
	Yes	Yes	Yes

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	OHSA 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.

OTHER PRECAUTIONS Mercury evaporates very slowly. Spilled mercury forms many tiny globules that will evaporate faster than a single pool, and can develop large concentrations in an unventilated area.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (TYPE) None

VENTILATION: LOCAL EXHAUST	If TLV exceeded	SPECIAL
MECHANICAL None		OTHER None

PROTECTIVE GLOVES: Rubber gloves if cleaning up spill

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE EQUIPMENT None

WORK/HYGIENIC PRACTICES Normal laboratory procedures