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MATERIAL SAFETY DATA SHEET

IDENTITY: Spectrum Tube, Hydrogen (ETP Product No. 20502)

SECTION I	
MANUFACTURER: Electro-Technic Products, Inc. ADDRESS 4642 N. Ravenswood Ave Chicago, IL 60640-4510	EMERGENCY TELEPHONE NUMBER 773-561-2349 TELEPHONE FOR INFORMATION 773-561-2349 FAX NUMBER FOR INFORMATION 773-561-3130
DATE PREPARED	August 1, 2012
SECTION II - HAZARDOUS INGREDIE	:NTS/IDENTITY INFORMATION
HAZARDOUS OSHA TWA ACGIR COMPONENT Hydrogen (H ₂) None established	H TWA OTHER LIMITS % (OPT)
SECTION III - PHYSICAL AND CHEMIC	CAL CHARACTERISTICS
BOILING POINT - 252.8 °C	SPECIFIC VOLUME (@ 1 ATM,21.1 °C) 11.967 m³/kg
VAPOR PRESSURE (Torr) Not applicable	MELTING POINT (deg C) Not applicable
VAPOR DENSITY (AIR=1) 0.0695 @ 1 ATM, 25 °C	EVAPORATION RATE (BUTYL ACETATE=1) Not applicable
SOLUBILITY IN WATER 18.02 cm ³ /kg water,1 ATM,20°C	APPEARANCE AND ODOR Colorless, odorless gas
SECTION IV - FIRE AND EXPLOSION	DATA
FLASH POINT (METHOD USED) Auto Ignition 571.2 °C	FLAMMABLE LIMITS LEL UEL 4 - 75% by volume
EXTINGUISHING MEDIA	Stop flow of gas
SPECIAL FIRE FIGHTING PROCEDUR	RES None
UNUSUAL FIRE AND EXPLOSION HA	ZARDS None, at small concentrations of hy

gas inside of tube

SECTION V - REACTIVITY DATA	Spectrum Tube, Hydrogen		
STABLE (Y/N) Y CONDITIONS TO AV	VOID Oxidizing agents		
INCOMPATIBILITY (MATERIALS TO AVOID) Oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCT	S None		
HAZARDOUS POLYMERIZATION (Y/N) N	CONDITIONS TO AVOID None		
SECTION VI - HEALTH HAZARD DATA			
ROUTES OF ENTRY INHALATION? Yes No No	SKIN? INGESTION?		
HEALTH HAZARDS (ACUTE AND CHRONIC) None			
CARCINOGENICITY NTP IARC No No No	C MONOGRAPHS OHSA REGULATED No		
SIGNS AND SYMPTOMS OF EXPOSURE	None		
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None			
EMERGENCY AND FIRST AID PROCEDURE	ES None		
SECTION V11 - PRECAUTIONS FOR SAFE	HANDLING AND USE		
STEPS TO BE TAKEN IN CASE MATERIAL I Clean up broken glass	S RELEASED OR SPILLED		
WASTE DISPOSAL METHOD Standard			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Sharp glass fragments			
OTHER PRECAUTIONS None			
SECTION VIII - CONTROL MEASURES			
RESPIRATORY PROTECTION (TYPE)	None		
VENTILATION: LOCAL EXHAUST MECHANICAL None OTHER	SPECIAL None		
PROTECTIVE GLOVES No EYE	PROTECTION Safety goggles		
OTHER PROTECTIVE EQUIPMENT Non	ne		
WORK/HYGIENIC PRACTICES Nor	mal laboratory procedures		

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