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MATERIAL SAFETY DATA SHEET

IDENTITY: **Spectrum Tube, Oxygen (Product No. SPTOX01)**

SECTION I

MANUFACTURER:

**United Scientific Supplies, Inc.
1001 Technology libertyville, IL 600.**

EMERGENCY TELEPHONE NUMBER
847-336-755

DATE PREPARED
September 1, 2022

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS OSHA PEL	OTHER LIMITS % (OPT)	ACGIH TLV
None	None	None established

SECTION III – PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT -183.0°C	SPECIFIC VOLUME (@1 atm, 21.1°C) 0.755m³/kg
VAPOR PRESSURE (Torr) Not applicable	MELTING POINT -218.4 °C

VAPOR DENSITY (AIR=1) 1.105 @ 1 ATM, 25 °C	EVAPORATION RATE (BUTYL ACETATE=1) Not applicable
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SOLUBILITY IN WATER 48.89 cm³/kg @ 1 ATM, 20 °C	APPEARANCE AND ODOR Colorless, odorless gas
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SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
Nonflammable			

EXTINGUISHING MEDIA	Does not apply
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SPECIAL FIRE FIGHTING PROCEDURES	None, at concentrations in tube
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UNUSUAL FIRE AND EXPLOSION HAZARDS	Will accelerate combustion
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SECTION V – REACTIVITY DATA Spectrum tube, Oxygen

STABLE (Y/N)	Y	CONDITIONS TO AVOID	None
INCOMPATIBILITY		(MATERIALS TO AVOID)	Readily combustible materials
HAZARDOUS DECOMPOSITION PRODUCTS			Ozone
HAZARDOUS POLYMERIZATION (Y/N)	N	CONDITIONS TO AVOID	None

SECTION VI – HEALTH HAZARD DATA

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	Yes	No	No
HEALTH HAZARDS (ACUTE AND CHRONIC)			None
CARCINOGENICITY	NTP	IARC MONOGRAPHS	OSHA REGULATED
No	No	No	No
SIGNS AND SYMPTOMS OF EXPOSURE			None
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE			None
EMERGENCY AND FIRST AID PROCEDURES			None

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Clean up broken glass

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		SPECIAL
MECHANICAL	None	OTHER
		None

PROTECTIVE GLOVES	No	EYE PROTECTION	Safety goggles
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OTHER PROTECTIVE EQUIPMENT **None**

WORK/HYGIENIC PRACTICES **Normal laboratory procedures**

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