

SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

Product Identification	ETI RISE OF PRESSURE FIRE SENSORS		
Application & Use	ETI Rise of Pressure Fire Sensors is fitted to detect fires. When exposed to fire, the internal core auto ignites to release pressure to activate a fire system.		
Manufacturer Address	PT ETI FIRE SYSTEMS Jl. Magelang – Kopeng Km 11 Tegalrejo Magelang – Central Java 56192 Indonesia Phone : +62 293 314 8990		jo FAX : +62 293 314 8991 Website : <u>www.etifiresystems.com</u>
Product Description	Email : info@etifiresystems.comWebsite : www.etifiresystems.comETI Rise of Pressure Fire Sensors is used as ROP automatic actuation system. When the detector/sensor is exposed to elevated heat and achieves a sustained 175-200 degrees Celsius. The ETI ROP Fire Sensors are very versatile and very robust with an extremely low false alarm performance.		
Applicable Part Numbers	SENSO.4 SENS1.0 SENS1.5 SENS2.0 SENS0.4 SENS1.0 SENS1.5 SENS2.0	Sensor 0.4 Metre Assembly ROP Sensor 1.0 Metre Assembly ROP Sensor 1.5 Metre Assembly ROP Sensor 2.0 Metre Assembly ROP Sensor Tube 0.4 Metre Sensor Tube 1.0 Metre Sensor Tube 1.5 Metre Sensor Tube 2.0 Metre	

SECTION 2 – COMPOSITION

Other REC Limits
None Recommended
None Recommended
None Recommended

SECTION 3 – HAZARD IDENTIFIACTION

Hazard Classification
Safety Phrases
Risk Phrases

SECTION 4 – FIRST AID MEASURES

Skin	Wash with soap and water.
Eye	Flush with large amounts of water.
Ingestion	Give large amounts of water and induce vomiting.
Inhalation	Not considered a likely route of entry.
Advice to doctor	Consult a doctor if any residual complaints are not adequately relieved by above measures. May aggravate pre-existing liver or kidney conditions.



SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media	Water, foam or dry chemical powder media may be used as required for residual fires involving this material.
Hazards from Combustion	Product of combustion should be considered toxic and avoided. Firemen should use breathing apparatus if dealing with fires in proximity to this material.
Precautions	

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spillage

Not considered a likely outcome.

SECTION 7 – HANDLING AND STORAGE

Handling	Use of approved safe work practices are necessary to avoid accidents that may cause
	injury or container danger causing spills handle with care.
Storage	Recommended storage environment is less than 65 ⁰ C in a clean dry environment.

SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

Respiratory ProtectionNot RequiredVentilationNot Required

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	Brown powder content – potassium Odor
рН	N/A
Boiling Point	N/A
Specific Gravity	N/A
Vapour Density	
Solubility in Water	Nil
Auto Ignition	195 ⁰ C
Flash Point	N/A
Vapour pressure	Not Determined

SECTION 10 – REACTIVITY & STABILITY

Stability	Stable under recommended conditions of storage.	
Incompatible Materials		
Condition to avoid	Avoid shock, friction, heavy impact, heat, sparks, open flames and other heat sources.	

SECTION 11 – TOXICOLOGICAL INFORMATION & HEALTH EFFECT

Inhalation	Not an expected route of entry.	
Ingestion	Not an expected route of entry.	
Eye	May cause mild to moderate transient irritation.	
Skin	May cause mild transient irritation and/or dermatitis.	

SECTION 12 – ECOLOGICAL INFORMATION

Biodegradability

No available information



SECTION 13 – DISPOSAL CONSIDERATION

Disposal

SECTION 14 – TRANSPORT INFORMATION

Hazard Class	UN 5.1			
UN Number	1479 Packaging Group III	1479 Packaging Group III		
Special note	Limited and expected quantity under t	Limited and expected quantity under this class classification = 5 Kg.		
N.B.	Normal shipments of these sensors wi	Normal shipments of these sensors will not exceed the 1 Kg expected quantity and are		
	therefore Normally Expected from Dec	laration. Refer to d	ata below.	
Quantity of ingredien	t mixture in each sensor	Min (Gram)	Max (Gram)	
SENS0.4	Sensor 0.4 Metre Assembly ROP	5	7	
SENS0.4	Sensor Tube 0.4 Metre (Replacement)	5	7	
SENS1.0	Sensor 1.0 Metre Assembly ROP	11	13	
SENS1.0	Sensor Tube 1.0 Metre (Replacement)	11	13	
SENS1.5	Sensor 1.5 Metre Assembly ROP	17	19	
SENS1.5	Sensor Tube 1.5 Metre (Replacement)	17	19	
SENS2.0	Sensor 2.0 Metre Assembly ROP	25	27	
SENS2.0	Sensor Tube 2.0 Metre (Replacement)	25	27	

SECTION 15 – REGULATORY INFORMATION

None Known

SECTION 16 – OTHER INFORMATION

Information	First issue 2 nd Feb 2006
Revision & Re-Issued	Mar 2006 Rev. A
	Dec 2007 Rev. B
	Mar 2008 Rev. C
	May 2010 Rev. D
	Mar 2015 Re-issued E
	Sept 2017 Rev. F

Disclaimer

This document has been compiled by ETI Fire Systems to serve as the manufacturer's material Safety Data Sheet (MSDS). It is based on information concerning the product which has been provided to ETI by other manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. While ETI has taken all due care to include accurate and up-to-date information in this MSDS, ETI in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.