



PT ETI FIRE SYSTEMS
Jl Magelang – Kopeng, KM 11
Tegalrejo, Magelang 56192
Central Java - Indonesia.

MATERIALS SAFETY DATA SHEET
ORIGINAL ISSUE : 25 May 2010
RE-ISSUED : 20 March 2015
DOCUMENT : MSDS 002E

**Document Format to Australian National Occupational Health
and Safety Commission Code of practice – 2nd Edition NOHSC 2010 (2003).**

SECTION 1 IDENTIFICATION

SUPPLIER

PT ETI FIRE SYSTEMS, Jl Kopeng Km 11 Tegalrejo, Magelang 56192,
Central Java – Indonesia.
Emergency phone contact no +62 62 293 314
Website www.etifiresystems.com
Email Info@etifiresystems.com

MATERIAL

COMMON NAME : ETI FIRE RISE OF PRESSURE FIRE SENSORS.

CAS No.: N/A

APPLICABLE PART NUMBERS:

PART SENS0.4	DESCRIPTION: SENSOR ASSEMBLY 0.4 METRE.
PART SENSTUBE0.4	DESCRIPTION: SENSOR 0.4 METRE (REPLACEMENT).
PART SENS1.0	DESCRIPTION: SENSOR ASSEMBLY 1.0 METRE.
PART SENSTUBE1.0	DESCRIPTION: SENSOR 1.0 METRE (REPLACEMENT).
PART SENS1.5	DESCRIPTION: SENSOR ASSEMBLY 1.5 METRE.
PART SENSTUBE1.5	DESCRIPTION: SENSOR ASSEMBLY 1.5 METRE (REPLACEMENT).
PART SENS2.0	DESCRIPTION: SENSOR ASSEMBLY 2.0 METRE.
PART SENSTUBE2.0	DESCRIPTION: SENSOR 2.0 METRE (REPLACEMENT)

USE : ETI FIRE RISE OF PRESSURE FIRE SENSORS ARE FITTED TO DETECT FIRES. WHEN EXPOSED TO FIRE, THE INTERNAL CORE AUTO IGNITES TO RELEASE PRESSURE TO ACTIVATE A FIRE SYSTEM.

SECTION 2 HAZARDS IDENTIFICATION

ETI FIRE FIGHTING AGENT CONCENTRATE IS:

HAZARD CLASSIFICATION:

SAFETY PHRASES:

RISK PHRASES:

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name: POTASSIUM CHLORATE
Other REC Limits: NONE RECOMMENDED

Ingredient Name: POTASSIUM DICHROMATE
Other REC Limits: NONE RECOMMENDED

Ingredient Name: STABILISER
Other REC Limits: NONE RECOMMENDED



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SECTION 4 FIRST AID MEASURES

EYE CONTACT : FLUSH WITH LARGE AMOUNTS OF WATER.

SKIN CONTACT : WASH WITH SOAP AND WATER.

INHALATION : NOT CONSIDERED A LIKELY ROUTE OF ENTRY.

INGESTION : GIVE LARGE AMOUNTS OF WATER AND INDUCE VOMITING.

CONSULT A DOCTOR IF ANY RESIDUAL COMPLAINTS ARE NOT ADEQUATELY RELIEVED BY ABOVE MEASURES.

ADVICE TO DOCTOR: AS ABOVE. MAY AGGRAVATE PRE-EXISTING LIVER OR KIDNEY CONDITIONS.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA –. WATER, FOAM OR DRY CHEMICAL MEDIA MAY BE USED AS REQUIRED FOR RESIDUAL FIRES INVOLVING THIS MATERIAL.

HAZARDS FROM COMBUSTION - PRODUCTS 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

STORAGE: RECOMMENDED STORAGE ENVIRONMENT IS LESS THAN 65 DEGREES CELSIUS IN A CLEAN DRY ENVIRONMENT.

HANDLING USE OF APPROVED SAFE WORK PRACTICES ARE NECESSARY TO AVOID ACCIDENTS THAT MAY CAUSE INJURY OR CONTAINER DANGER CAUSING SPILLS HANDLE WITH CARE.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION : NOT REQUIRED.

VENTILATION : NOT REQUIRED.

OTHER:

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: BROWN POWDER CONTENT – POTASSIUM ODOR.

BOILING POINT : N/A **SPECIFIC GRAVITY** N/A

VAPOR PRESSURE: NOT DETERMINED

VAPOUR DENSITY:

SOLUBILITY IN WATER : NIL

FLASH POINT: N/A

AUTO-IGNITION: 195 Deg Celcius

PH: N/A



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SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY. STABLE UNDER RECOMMENDED CONDITIONS OF STORAGE

CONDITIONS TO AVOID. AVOID SHOCK, FRICTION, HEAVY IMPACT, HEAT, SPARKS, OPEN FLAMES AND OTHER HEAT SOURCES.

INCOMPATIBLE MATERIALS:.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:

EYE CONTACT: MAY CAUSE MILD TO MODERATE TRANSIENT IRRITATION.

SKIN CONTACT: MAY CAUSE MILD TRANSIENT IRRITATION AND/OR DERMATITIS.

INHALATION: NOT AN EXPECTED ROUTE OF ENTRY.

INGESTION: NOT AN EXPECTED ROUTE OF ENTRY.

SECTION 12 ECOLOGICAL INFORMATION

BIODEGRADABILITY: NO AVAILABLE INFORMATION

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL:

SECTION 14 TRANSPORT INFORMATION

PROPER SHIPPING NAME: ETI FIRE RISE OF PRESSURE FIRE SENSORS.

HAZARD CLASS: UN 5.1. **UN NUMBER:** 1479 **Packaging Group** III

SPECIAL NOTE: LIMITED AND EXCEPTED QUANTITY UNDER THIS CLASSIFICATION = 5 KG.

N.B: NORMAL SHIPMENTS OF THESE SENSORS WILL NOT EXCEED THE 1 KG EXCEPTED QUANTITY, AND ARE THEREFORE **NORMALLY EXCEPTED FROM DECLARATION**. REFER TO DATA BELOW.

QUANTITY OF INGREDIENT MIXTURE IN EACH DETECTOR		MIN(G)	MAX(G)
PART SENS0.4	SENSOR ASSEMBLY 0.4 METRE.	5	7
PART SENSTUBE0.4	SENSOR 0.4 METRE (REPLACEMENT).	5	7
PART SENS1.0	SENSOR ASSEMBLY 1.0 METRE. .	11	13
PART SENSTUBE1.0	SENSOR 1.0 METRE (REPLACEMENT. .	11	13
PART SENS1.5	SENSOR ASSEMBLY 1.5 METRE. .	17	19
PART SENSTUBE1.5	SENSOR ASSEMBLY 1.5 METRE (REPLACEMENT.	17	19
PART SENS2.0	SENSOR ASSEMBLY 2.0 METRE. .	25	27
PART SENSTUBE2.0	SENSOR 2.0 METRE (REPLACEMENT) .	25	27



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SECTION 15 REGULATORY INFORMATION

NONE KNOWN..

SECTION 16 OTHER INFORMATION

ISSUE REGISTER THIS DOCUMENT

First Issued 2nd Feb 2006

NOTES ABOUT AMMENDMENT A March 2006

Part Numbers amended.

NOTES ABOUT AMMENDMENT B Dec 2007

D.G. Rating changed in consideration of minimum declarable amounts.

NOTES ABOUT AMMENDMENT C Mar 2008

Transport D.G. exemption clarified Mar 2008.

NOTES ABOUT AMMENDMENT D May 2010.

Document Format reviewed to Australian National Occupational Health and Safety Commission Code of practice – 2nd Edition NOHSC 2010 (2003).

NOTES ABOUT DOCUMENT MSDS 002 E March 2015 -- RE-ISSUED

Disclaimer:

This document has been compiled by ETI 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 manufacturers 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 utilising this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.