

## Ventilation Smoke Tubes / Air Flow Indicator Tubes

U070021100

Revision No: 2.00

Revision date: 22.03.2018

Print date: 22.03.2018

Page 1 of 6

### 1. Identification of the substance/mixture and of the company/undertaking

**Product identifier:** Ventilation Smoke Tubes/ Air Flow Indicator tubes  
**Relevant identified uses of the substance or mixture and uses advised against**  
**Uses advised against:** The product is to be used exclusively for the applications named in the directions for use.

#### Details of the supplier of the safety data sheet

**Company name:** UNIPHOS ENVIROTRONIC PVT. LTD.  
**Street:** Readymoney Terrace 167, Dr. Annie Besant Road, Worli  
**Place:** Mumbai 400018, India  
**Telephone:** +91 22 61233500  
**Telefax:** +91 22 24978119  
**Emergency telephone:** +91 22 61233500  
**Email Address:** gasdetection@uniphos-envirotronic.com  
**Website:** <http://www.uniphos-she.com>

**Further Information:** Apply Safety data sheet to the following products:  
Part-No.

CF000732	SMT-1	Smoke Tube
CF000829	SMT-K	Smoke Tube Kit

### 2. Hazards identification

**Classification of the substance or mixture:**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318  
Specific target organ toxicity - single exposure (Category 3),  
Respiratory system, H335  
Acute aquatic toxicity (Category 3), H402  
Chronic aquatic toxicity (Category 3), H412

#### GHS Label elements, including precautionary statements

**Pictogram :**



**Signal word** Danger

**Hazard statement(s)**  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

## Ventilation Smoke Tubes / Air Flow Indicator Tubes

Revision No: 2.00

Revision date: 22.03.2018

Print date: 22.03.2018

Page 2 of 6

### 3. Composition/information on ingredients

#### Mixtures

**Chemical characterization:** Sealed glass tube, filled with pumice.

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-588-9	Stannic chloride, tin tetrachloride	10 - 12 %
7646-78-8		
050-001-00-5	Skin Corr. 1B, Aquatic Chronic 3; H314 H318 H335 H412	

Full text of R- and H-phrases: see section 16.

### 4. First aid measures

#### Description of first aid measures

**After inhalation:** Not applicable for intact detector tubes.  
When indicator material is spilled: Call a physician immediately.

**After contact with skin:** Not applicable for intact detector tubes.  
When indicator material is spilled: Wash off immediately with plenty of water.

**After contact with eyes:** Not applicable for intact detector tubes.  
When indicator material is spilled: Rinse immediately with plenty of water, also under the eyelids. Consult an ophthalmologist immediately.

**After ingestion:** Not applicable for intact detector tubes.  
When indicator material is spilled: Call a physician immediately.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media:** The product itself does not burn. Use extinguishing measures that are appropriate to the environment.

**Extinguishing media which must not be used for safety reasons:** None.

**Special hazards arising from the substance or mixture:** None.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Release not possible if used properly.

**Methods and material for containment and cleaning up:** When indicator material is spilled: Dilute with water. Soak up the product with absorbent, non-flammable material. Avoid contact of breakage of glass and indicator material. Dispose of as described in chapter 13.

## Ventilation Smoke Tubes / Air Flow Indicator Tubes

Revision No: 2.00

Revision date: 22.03.2018

Print date: 22.03.2018

Page 3 of 6

### 7. Handling and storage

#### Precautions for safe handling

##### Advice on safe handling:

See the specific Instruction for use.

##### Advice on protection against fire and explosion:

No special precautions required.

#### Conditions for safe storage, including any incompatibilities

##### Advice on storage compatibility:

Do not store together with edibles.

##### Further information on storage conditions:

Store in cool place. Recommended storage temperature: 20°C

### 8. Exposure controls/personal protection

#### Control parameters

##### Additional advice on limit values:

Release not possible if used properly.

#### Exposure controls

##### Protective and hygiene measures:

Avoid contact with eyes or skin after breaking of the tub tips. Avoid contact of breakage of glass and indicator material. Do not take up glass breakage and content of the tube with bare hands. Wash hands before breaks and at the end of the workday.

##### Respiratory protection:

Not required.

##### Hand protection:

Not required.

When indicator material is spilled: Use Protective gloves made out of: Nitrile rubber, butyl rubber

##### Eye protection:

Not required.

When indicator material is spilled: Use Safety glasses

##### Skin protection:

Not required.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

##### Physical state:

Granules in a glass tube.

##### Colour:

grey

##### Odour:

pungent

pH-Value (at 20 °C):

2

#### Test method

50 g/l water

#### Changes in the physical state

Melting point:

n.a.

Boiling point:

n.a.

Flash point:

n.a.

Lower explosion limits:

n.a.

Upper explosion limits:

n.a.

Vapour pressure:

n.a.

## Ventilation Smoke Tubes / Air Flow Indicator Tubes

Revision No: 2.00

Revision date: 22.03.2018

Print date: 22.03.2018

Page 4 of 6

Water solubility: low solubility  
(at 20 °C)  
Viscosity / dynamic: n.a.

### 10. Stability and reactivity

**Reactivity:** None if handled correctly in accordance with the instructions for use.  
**Chemical stability:** Stable under proper storage and handling.  
**Possibility of hazardous reactions:** None if handled correctly in accordance with the instructions for use.  
**Conditions to avoid:** None if handled correctly in accordance with the instructions for use.  
**Incompatible materials:** None if handled correctly in accordance with the instructions for use.  
**Hazardous decomposition products:** No decomposition if stored and applied as directed.  
**Further information:** After the opening of the tube: sensitive to water

### 11. Toxicological information

**Information on toxicological effects**  
**Toxicokinetics, metabolism and distribution:** No data available.  
**Acute toxicity:** When indicator material is spilled: No data available.  
Tin(IV)chloride: LC50/inhalative/4h/rat : 1,4 mg/l (literature value )  
**Irritation and corrosivity:** Not applicable for intact detector tubes.  
When indicator material is spilled: Irritating to eyes, respiratory system and skin.  
**Sensitising effects:** No known sensitizing effect.  
**Carcinogenic/mutagenic/toxic effects for reproduction:** Tin(IV)chloride: Mutagenicity Micronucleus None.  
Not mutagenic in AMES Test.

### 12. Ecological information

**Toxicity:** When indicator material is spilled: No data available.

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
7646-78-8	Stannic chloride, tin tetrachloride				
	Acute fish toxicity	LC50	>1000 mg/l	Brachydanio rerio	96
	Acute crustacean toxicity	EC50	21,5 mg/l	Daphnia Magna	48

**Persistence and degradability:** No data available.  
**Bio-accumulative potential:** No data available.

**Mobility in soil:** No data available.

## Ventilation Smoke Tubes / Air Flow Indicator Tubes

Revision No: 2.00

Revision date: 22.03.2018

Print date: 22.03.2018

Page 5 of 6

**Results of PBT and vPvB assessment:**

The product does not contain any substance which meets the PBT criteria (persistent/bio-accumulative/toxic) or the vPvB criteria (very persistent/very bio-accumulative).

**Other adverse effects:**

No data available.

**Further information:**

When indicator material is spilled: Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### 13. Disposal considerations

**Waste treatment methods**

**Recommendation Waste disposal  
number of waste from residues/unused  
products:**

150202  
WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS,  
FILTER MATERIALS AND PROTECTIVE CLOTHING NOT  
OTHERWISE SPECIFIED; absorbents, filter materials, wiping  
cloths and protective clothing; absorbents, filter materials  
(including oil filters not otherwise specified), wiping cloths,  
protective clothing contaminated by dangerous substances

- 1) Tubes no longer generating smoke require no special treatment prior to disposal.
- 2) Do not dispose of used smoke tubes until they no longer produce smoke otherwise place the tubes in water with baking soda to neutralize any acidity of the reagent.
- 3) Take precautions to prevent the contents from entering creeks, rain water run-off, sewers or water supplies.
- 4) Follow all local, state and federal laws and regulations regarding waste
- 5) A box of Uniphos detector tubes contain less than 0.5 grams of hazardous materials and as such are classified a small quantity exception for transportation (49 CFR 173.4) and require no special shipping consideration.

**Recommendation Waste disposal  
number of contaminated packaging:**

150101  
WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS,  
FILTER MATERIALS AND PROTECTIVE CLOTHING NOT  
OTHERWISE SPECIFIED; packaging (including separately  
collected municipal packaging waste); paper and cardboard  
packaging

## Ventilation Smoke Tubes / Air Flow Indicator Tubes

Revision No: 2.00

Revision date: 22.03.2018

Print date: 22.03.2018

Page 6 of 6

### 14. Transport information

#### Land transport (ADR/RID)

Other applicable information (land transport):

Not classified as dangerous regarding transport regulations.

#### Inland waterways transport

Other applicable information (inland waterways transport):

Not classified as dangerous regarding transport regulations.

#### Marine transport

Other applicable information (marine transport):

Not classified as dangerous regarding transport regulations.

#### Air transport

Other applicable information (air transport):

Not classified as dangerous regarding transport regulations.

### 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

### 16. Other information

Changes:

Sections which have been changed in comparison to the preceding edition: None

Abbreviations and acronyms:

n.a. = not applicable

Full text of H-Statements referred to under sections 2 and 3:

Further Information:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical leaflet or in the processing instructions. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

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