

Smoke Tubes (small corroding)

D050016401

Revision no.: 5.00

Revision date: 28.03.2017

Print date: 28.03.2017

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

Product identifier: Smoke Tubes (small corroding)
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

Further Information: Apply Safety data sheet to the following products:

Part-No.

D5019708

D5019709

2. Hazards identification

Classification of the substance or mixture:

Indications of danger: Harmful, Irritant

R-phrases:

Irritating to eyes and skin.

May cause sensitization by inhalation and skin contact.

Label elements

Danger symbols:



Xn - Harmful

Xn - Harmful

R phrases:

36/38

Irritating to eyes and skin.

42/43

May cause sensitization by inhalation and skin contact.

S phrases:

02

Keep out of the reach of children.

23

Do not breathe smoke.

24

Avoid contact with skin.

26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. Composition/information on ingredients

Mixtures

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Chemical characterization: Sealed glass tubes, filled with inert porous granules, treated with acetic acid, ethylenediamine

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
200-580-7	Acetic acid	3 - 4 %
64-19-7	C R10-35	
607-002-00-6	Flam. Liq. 3, Skin Corr. 1A; H226 H314	
203-468-6	1,2-Diaminoethane, ethylenediamin	2 - 3 %
107-15-3	Xn, C R10-21/22-34-42/43	
612-006-00-6	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1; H226 H312 H302 H314 H334 H317	

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: Inhalation of vapours: Move to fresh air. If symptoms persist, call a physician.

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

After contact with eyes: Not applicable for intact detector tubes.
When indicator material is spilled: Rinse with plenty of water immediately, also under the eyelids, for at least 15 minutes. Consult an ophthalmologist immediately.

After ingestion: Not applicable for intact detector tubes.
When indicator material is spilled: Call a physician immediately. If conscious, drink plenty of water.

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.

Advice for firefighters: None.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Methods and material for containment and cleaning up:

Release not possible if used properly.

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 section 13.

7. Handling and storage

Precautions for safe handling

Advice on safe handling:

Advice on protection against fire and explosion:

See the specific Instruction for use.

No special precautions required.

Conditions for safe storage, including any incompatibilities

Advice on storage compatibility:

Further information on storage conditions:

Do not store together with edibles.

See the specific Instruction for use. Recommended storage temperature: 20°C

8. Exposure controls/personal protection

Control parameters

Exposure limits (EH40 / OSHA PEL / ACGIH TLV)

CAS No.	Chemical name	Category	mg/m ³	Origin
107-15-3	1,2-Diaminoethane	TWA (8 h)	25	OSHA PEL/ ACGIH
		STEL (15 min)	-	OSHA PEL/ ACGIH
64-19-7	Acetic acid	TWA (8 h)	25	EU / OSHA PEL/ ACGIH
		STEL (15 min)	37	EU / OSHA PEL/ ACGIH

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 breaks 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: Protective gloves made out of: nitrile rubber, butyl rubber

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Eye protection: Not required.
When indicator material is spilled: Safety glasses

Skin protection: Not required.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Granules inside of ampoules
Colour: 1*)
Odour: pungent

pH-Value (at 20 °C):

2*)

Test method

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

Other information: 1*) ampoule 1: grey, ampoule 2: white
2*) ampoule 1: weakly basic, ampoule 2: acidic

10. Stability and reactivity

Reactivity: None if handled correctly in accordance with the instructions for use.
Chemical stability: None under recommended use and storage conditions.
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

Toxicocinetics, metabolism and distribution: No data available.

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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	h
64-19-7	Acetic acid				
	Acute oral toxicity	LD50	3310 mg/kg	rats	
	Acute dermal toxicity	LD50	1060 mg/kg	rabbit	
107-15-3	1,2-Diaminoethane, ethylenediamine				
	Acute oral toxicity	LD50	866 mg/kg	rats	
	Acute dermal toxicity	LD50	560 mg/kg	rabbit	

Irritation and corrosivity:

In the formation of vapours : Vapours may be irritating to eyes, nose, throat, and lungs. May cause skin irritation.

Sensitising effects:

May cause sensitization by inhalation and skin contact.

12. Ecological information

Toxicity:

No data available.

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
64-19-7	Acetic acid				
	Acute fish toxicity	LC50	75 mg/l	Lepomis macrochirus	96
107-15-3	1,2-Diaminoethane, ethylenediamine				
	Acute fish toxicity	LC50	275 mg/l	Poecilia reticulata	96
	Acute algae toxicity	ErC50	100 mg/l	Chlorella pyrenoidosa	96
	Acute crustacea toxicity	EC50	3 mg/l	Daphnia Magna	48

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-15-3	1,2-Diaminoethane, ethylenediamine	-2,04

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.

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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

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.

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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: 1, 2, 3, 10, 11, 12
Abbreviations and acronyms:	n.a. = not applicable n.d. = not determined
Full text of R-phrases referred to under sections 2 and 3:	10 Flammable. 21/22 Harmful in contact with skin and if swallowed. 34 Causes burns. 35 Causes severe burns. 36/38 Irritating to eyes and skin. 42/43 May cause sensitization by inhalation and skin contact.
Full text of H-Statements referred to under sections 2 and 3:	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Further Information:	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.

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