

Detector Tube Type Carbon dioxide

U070013100

Revision no.: 2.00

Revision date: 10.06.2022

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0. General notes

These products are articles according to article 3.3 of regulation (EC) no. 1907/2006 (REACH). It is not necessary to supply a Safety Data Sheet for these products. Safety Data Sheets stipulate according to Article 31 for hazardous substances and preparations, but not for articles. UNIPHOS is obliged to supply its customers with appropriate information to ensure safe handling. A special format is not required for this information.

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

Product identifier: Detector Tube Type Carbon dioxide
Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Detector tube
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:

Tube Code	US Code	Tube Name	Range
CF000028	SCD-8M	Carbon Dioxide	0.5 - 10 %
CF000029	SCD-8	Carbon Dioxide	1 - 20 %
CF000030	SCD-10	Carbon Dioxide	5 - 60 %

2. Hazards identification

Classification of the substance or mixture:

As an article the product does not need to be labelled in accordance with EC-directives or respective national laws.

Precautionary statement(s)

P273 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Additional advice on labelling:

As an article the product does not need to be labelled in accordance with EC-directives or respective national laws.

Other hazards:

Detector tube: No hazards deemed to be of major importance.
Content: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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3. Composition/information on ingredients

Mixtures

Chemical characterization:

Sealed glass tube, filled with inert granules, treated with methanol, and sodium hydroxide.

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
200-659-6	Methanol	<= 0.1 %
67-56-1	F, T	
603-001-00-X	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370	
215-185-5	Sodium hydroxide	< 10 %
1310-73-2		
011-002-00-6	Met. Corr. 1; Skin Corr. 1A; Eye Dam.1; Aquatic Acute 3; H290, H314, H318, H402	

Full text of P- 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: If you feel unwell, seek medical advice (show the label where possible).

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: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice (10 min).

After ingestion:

Not applicable for intact detector tubes.

When indicator material is spilled: If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

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

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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:**
Methods and material for containment and cleaning up:

Release not possible if used properly.

When indicator material is spilled: Mop up whilst dry. Avoid dust formation. 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. Store in cool place (< 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
67-56-1	Methanol	TWA (8 h)	260	WEL / OSHA PEL/ ACGIH
		STEL (15 min)	325	WEL / OSHA PEL/ ACGIH
1310-73-2	Sodium hydroxide	TWA (8 h)	2.00	WEL / OSHA PEL/ ACGIH
		C	2.00	WEL / 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 tube tips. Avoid contact of breakage of glass and indicator material. Do not take up glass beads and content of the tube with bare hands. Wash hands before breaks and at the end of the workday.

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Respiratory protection:	Not required.
Hand protection:	Not required. When indicator material is spilled: Protective gloves made out of: Nitrile rubber, butyl rubber
Eye protection:	Not required.
Skin protection:	Not required.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Granules in a glass tube.
Colour:	violet and light blue
Odour:	almost odorless

pH-Value (at 20 °C):

>7

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

10. Stability and reactivity

Reactivity:	None if handled correctly in accordance with the instructions for use.
Possibility of hazardous reactions:	None under recommended use and storage conditions.
Conditions to avoid:	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 air (discolouration)

11. Toxicological information**Information on toxicological effects**

Toxicocinetics, metabolism and distribution:	Not applicable for intact detector tubes. When indicator material is spilled: No data available.
Acute toxicity:	Not applicable for intact detector tubes. When indicator material is spilled: No data available.

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CAS No.	Chemical name			
	Exposure routes	Method	Dose	Species
67-56-1	Methanol			
	Acute oral toxicity	LD50	5628 mg/kg	rats
	Acute dermal toxicity	LD50	15800 mg/kg	rabbit
1310-73-2	Sodium hydroxide			
	Acute oral toxicity	No data available		
	Acute dermal toxicity	No data available		

12. Ecological information**Toxicity:**

Not applicable for intact detector tubes.

When indicator material is spilled: No data available.

CAS No.	Chemical name			
	Aquatic toxicity	Method	Dose	Species
67-56-1	Methanol			
	Acute fish toxicity	LC50	15400 mg/l	Lepomis macrochirus
	Acute crustacea toxicity	EC50	> 10000 mg/l	Daphnia Magna
1310-73-2	Sodium hydroxide			
	Acute fish toxicity	LC50	125 mg/l	Gambusia affinis
	Acute crustacea toxicity	EC50	40.38 mg/l	Daphnia Magna

Persistence and degradability:

Not applicable for intact detector tubes.

When indicator material is spilled: No data available.

Bioaccumulative potential:

Not applicable for intact detector tubes.

When indicator material is spilled: No data available.

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
67-56-1	Methanol	-0,77

Mobility in soil:

Not applicable for intact detector tubes.

When indicator material is spilled: No data available.

Other adverse effects:

When indicator material is spilled: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information:

When indicator material is spilled: Should not be released into the environment.

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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) Do not dispose of used tubes carelessly, take precautions to prevent the contents from entering creeks, rain water run-off, sewers or water supplies.
- 2) Follow all local, state and federal laws and regulations regarding waste
- 3) 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.

15. Regulatory information

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

National regulatory information

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16. Other information

Changes:

Sections which have been changed in comparison to the preceding edition: 1.

Abbreviations and acronyms:

n.a. = not applicable
n.d. = not determined

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

P273 Avoid release to the environment.

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

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H402	Harmful aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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.)
