KWIK DRAW
UNIPHOS

Detector Tube Types CO_2 - 100

D050016801

Revision no.: 6.00
Revision date: 31.05.2022 Print date: 31.05.2022

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 Types CO_2 - 100

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:

Part-No.	Product Name
D5086814	CO_2-100, Pkg of 10

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.

Label elements

Hazardous components which must be listed on the label: Hydrazine hydrate

S phrases:

02	Keep out of the reach of children.
28	After contact with skin, wash immediately with plenty of water .
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46	If swallowed, seek medical advice immediately and show this container or label.

Special labelling of certain mixtures: Contains hydrazine hydrate. May produce an allergic reaction.

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: May cause cancer. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical characterization: Sealed glass tube, filled with inert granules, treated with ethanediol, hydrazine hydrate and further chemicals, which are not dangerous in their concentration

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
203-473-3	Ethanediol, Ethylene glycol	5 %
107-21-1	Xn R22	
603-027-00-1	Acute Tox. 4; H302	
204-699-5	Sodium methanolate, sodium methoxide	< 1 %
124-41-4	F, C R11-34-14	
603-040-00-2	Skin Corr. 1B; H251 H314	
206-114-9	Hydrazine hydrate	0,1 - 0,2 %
7803-57-8	Carc. Cat. 2, T, N R45-23/24/25-34-43-50-53	
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Carc. 1B, Aquatic Acute 1, Aquatic Chronic 1; H301 H311 H331 H314 H317 H350 H400 H410	

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. 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. Consult a physician. Cut be handled through a doctor.

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. 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.

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 (acid binding agent). 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: 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: 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/m³	Origin
107-21-1	Ethane-1,2-diol, vapour (Ethylene Glycol, vapour)	TWA (8 h)	52	WEL
			-	OSHA PEL/ ACGIH
		STEL (15 min)	104	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 tub tips. Avoid contact of breakage of glass and indicator material. Do not take up glass breads 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
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 in a glass tube.
Colour:	white
Odour:	almost odorless

		Test method
pH-Value (at 20 °C):	8	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.

CAS No.	Chemical name			
	Exposure routes	Method Dose	Species	h
107-21-1	Ethanediol			
	Acute oral toxicity	LD50 > 2000 mg/kg	rats	
7803-57-8	Hydrazine hydrate			
	Acute oral toxicity	LD50 60 mg/kg	rats	
	Acute dermal toxicity	LD50 91 mg/kg	rabbit	

Sensitizing effects:

Not applicable for intact detector tubes.
Hydrazine hydrate: May cause sensitization by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction:

Not applicable for intact detector tubes.
Hydrazine hydrate: Carcinogenic, category: K2

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	h
107-21-1	Ethanediol			
	Acute fish toxicity	LC50 >18500 mg/l	Rainbow trout (Oncorhynchus mykiss)	96
7803-57-8	Hydrazine hydrate			
	Acute algae toxicity	ErC50 0,0061 mg/l	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 0,18 mg/l	Daphnia	48

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
7803-57-8	Hydrazine hydrate	-3,8

Mobility in soil:

Not applicable for intact detector tubes.
When indicator material is spilled: No data available.

Other adverse effects: Not applicable for intact detector tubes.
When indicator material is spilled: Toxic 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. 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) 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.

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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.

Abbreviations and acronyms:
n.a. = not applicable
n.d. = not determined

Full text of R-phrases referred to under sections 2 and 3:

11	Highly flammable.
14	Reacts violently with water.
22	Harmful if swallowed.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
34	Causes burns.
43	May cause sensitization by skin contact.
45	May cause cancer.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.

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

H251	Self-heating: may catch fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H350	May cause cancer.
H400	Very toxic to 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.)