

Detector Tube SF6-products of decomposition

D050017801

Revision no.: 3,00

Revision date: 17.08.2011

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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. MSA 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 SF6-products of decomposition
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: MSA AUER GmbH
Street: Thiemannstrasse 1
Place: D-12059 Berlin
Telephone: ++49-30-6886-0
Telefax: ++49-30-6886-1558
Emergency telephone: 1-800-255-3924 USA/CDN
++1-813-248-0585 internat.

Further Information: Apply Safety data sheet to the following products:
Part-No.
D5085838

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
S phrases: 61 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.

3. Composition/information on ingredients**Mixtures**

Chemical characterization: Sealed glass tube, filled with inert granules, treated with methanol, copper(II)sulfate and further chemicals, which are not dangerous in their concentration

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Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
231-847-6	Copper sulphate	< 1 %
7758-98-7	Xn, Xi, N R22-36/38-50-53	
029-004-00-0	Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H319 H315 H400 H410	
200-659-6	Methanol	< 0,1 %
67-56-1	F, T R11-23/24/25-39/23/24/25	
603-001-00-X	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370	

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: 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.

Extinguishing media which must not be used for safety reasons:

None.

Special hazards arising from the substance or mixture:

None.

6. Accidental release measures

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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:

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. Store in cool place (< 20° C)

8. Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

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, butyl rubber

Eye protection:

Not required.

Skin protection:

Not required.

9. Physical and chemical properties

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Information on basic physical and chemical properties

Physical state: Granules in a glass tube.
Colour: violet and light blue
Odour: irritating (of vinegar)

Test method

50 g/l water

pH-Value (at 20 °C):

4

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

10. Stability and reactivity

Reactivity: None if handled correctly
Possibility of hazardous reactions: None if handled correctly
Conditions to avoid: None if handled correctly
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
7758-98-7	Copper sulphate				
	Acute oral toxicity	LD50	300 mg/kg	rats	
67-56-1	Methanol				
	Acute oral toxicity	LD50	5628 mg/kg	rats	
	Acute dermal toxicity	LD50	15800 mg/kg	rabbit	

12. Ecological information

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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
7758-98-7	Copper sulphate				
	Acute fish toxicity	LC50	0,11 mg/l	Rainbow trout (Oncorhynchus mykiss)	96
67-56-1	Methanol				
	Acute fish toxicity	LC50	15400 mg/l	Lepomis macrochirus	96
	Acute crustacea toxicity	EC50	> 10000 mg/l	Daphnia Magna	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
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.

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
 Classified as hazardous waste.

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

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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: 1, 2, 3, 8, 10, 11, 12, 14

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.
22	Harmful if swallowed.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
36/38	Irritating to eyes and skin.
39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H370	Causes damage to organs.

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

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Further Information:

H400 Very toxic to aquatic life.
H410 Very toxic 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.

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