

## Smoke Tubes

D050016501

Revision no. : 1,00  
Revision date : 21.05.2008

Print date : 21.05.2008

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

Identification of the substance or preparation:

Smoke Tubes

#### Company/undertaking identification

Company name:

**MSA Auer GmbH**

Street:

**Thiemannstrasse 1**

Place:

**D-12059 Berlin**

Telephone:

**++49-30-6886-0**

Telefax:

**++49-30-6886-1558**

Emergency telephone:

**++49-30-6886-0**

Further Information

Apply Safety data sheet to the following products:  
Part-No.  
D5019701

### 2. Hazards identification

Classification:

Indications of danger : Irritant

R-phrases :

Irritating to eyes, respiratory system and skin.

Explication of special hazards for human health and environment:

Detector tube: No hazards deemed to be of major importance.

### 3. Composition/information on ingredients

Chemical characterization:

( preparation )

Sealed glass tube, filled with inert granules, treated with oleum

#### Hazardous components

Chemical name	CAS-No.	EC-No.	Symbols	R-phrases	Quantity
sulfic acid fuming	8014-95-7	-	C	14-35-37	4-5 %

Full text of each relevant R phrase can be found in heading 16.

### 4. First aid measures

After inhalation:

Not applicable for intact detector tubes.

When indicator material is spilled: Inhalation of vapours: 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.

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**5. Fire-fighting measures**

**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 exposure hazards arising from substance or preparation itself, combustion products, resulting gases:** None.

**6. Accidental release measures**

**Personal precautions:** Release not possible if used properly.

**Methods for cleaning up/taking 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.

**7. Handling and storage**

**Handling**

**Advice on safe handling:** See the specific Instruction for use.

**Advice on protection against fire and explosion:** No special precautions required.

**Storage**

**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.

**8. Exposure controls/personal protection**

**Exposure limit values**

**Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
7664-93-9	Sulphuric acid (OLD)	-	1		TWA (8 h)	OES
		-	-		STEL (15 min)	OES

**Additional advice on control parameters** 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.

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**Hand protection:** Not required.  
**Eye protection:** Not required.  
**Skin protection:** Not required.

## 9. Physical and chemical properties

### General information

**Physical state:** Granules in a glass tube.  
**Colour:** red  
**Odour:** pungent

### Important health, safety and environmental information

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

## 10. Stability and reactivity

**Conditions to avoid:** None if handled correctly  
**Hazardous decomposition products:** No decomposition if stored and applied as directed.  
**Additional information:** After the opening of the tube: sensitive to water

## 11. Toxicological information

**Acute toxicity:** Not applicable for intact detector tubes.  
When indicator material is spilled: No data available.  
**Corrosive and irritant effects:** In the formation of vapours : Vapours may be irritating to eyes, nose, throat, and lungs. May cause skin irritation.  
Ingestion causes burns of the upper digestive and respiratory tracts.

## 12. Ecological information

**Ecotoxicity:** Not applicable for intact detector tubes.  
When indicator material is spilled: 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

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**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

## 14. Transport information

**Further Information**

Not classified as dangerous regarding transport regulations.

## 15. Regulatory information

**Labelling**

**Indication of danger:**

**R phrases:**

**S phrases:**

Xi - Irritant

36/37/38

Irritating to eyes, respiratory system and skin.

02

Keep out of the reach of children.

26

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

28

After contact with skin, wash immediately with  
plenty of water.

46

If swallowed, seek medical advice immediately  
and show this container or label.

24/25

Avoid contact with skin and eyes.

**Additional advice on labelling:**

The product is classified and labelled in accordance with the  
EC directives or respective national laws.

**National regulatory information**

## 16. Other information

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

14

Reacts violently with water.

35

Causes severe burns.

36/37/38

Irritating to eyes, respiratory system and skin.

37

Irritating to respiratory system.

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**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.

n.a. = not applicable

n.d. = not determined

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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.)*