

Smoke cartridges D050015201

Revision No: 3,00

Revision date: 05.10.2011 Print date: 05.10.2011 Page 1 of 7

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

Product identifier: Smoke cartridges

Relevant identified uses of the substance or mixture and uses advised against

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. D6009000

2. Hazards identification

Classification of the substance or Indications of danger: Corrosive

mixture: R-phrases:

Causes severe burns.

Label elements

Danger symbols: C - Corrosive



C - Corrosive

Hazardous components which must be Sulfic acid fumic

listed on the label:

R phrases: 35 Causes severe burns.

S phrases: 02 Keep out of the reach of children.

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.

3. Composition/information on ingredients

Mixtures

Chemical characterization: Sealed glass tube, filled with inert granules, treated with sulfic

acid fumic



Smoke cartridges D050015201

Revision No: 3,00

Revision date: 05.10.2011 Print date: 05.10.2011 Page 2 of 7

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
_	Sulfic acid fumic	35 %
8014-95-7	C R14-35-37	
	Skin Corr. 1; H335 H314	

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. 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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Release not possible if used properly.

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Smoke cartridges D050015201

Revision No: 3,00

Revision date: 05.10.2011 Print date: 05.10.2011 Page 3 of 7

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. Avoid contact of breakage of glass and indicator material. Dispose

of as described in chapter 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: 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

Control parameters

Exposure limits (EH40)

CAS No Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
7664-93-9 Sulphuric acid (mist)	-	1		TWA (8 h)	EU
	-	-		STEL (15	EU
				min)	

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

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of: Nitrile rubber, butyl rubber

Eye protection: Not required.

When indicator material is spilled: Safety glasses

Skin protection: Not required.

9. Physical and chemical properties



D050015201 **Smoke cartridges**

Revision No: 3,00

Revision date: 05.10.2011 Print date: 05.10.2011 Page 4 of 7

Information on basic physical and chemical properties

Physical state: Granules in a glass tube.

Colour: red Odour: pungent

Test method pH-Value (at 20 °C): 50 g/l water

Melting point: n.a. Boiling point: n.a. Flash point: n.a. Lower explosion limits: n.a. Upper explosion limits: n.a.

Water solubility: low solubility

(at 20 °C)

Vapour pressure:

Viscosity / dynamic: n.a.

10. Stability and reactivity

Changes in the physical state

None if handled correctly Reactivity:

Stable under proper storage and handling. Chemical stability:

None if handled correctly Possibility of hazardous reactions: Conditions to avoid: None if handled correctly

Hazardous decomposition products: No decomposition if stored and applied as directed. After the opening of the tube: Sensitive to water **Further information:**

11. Toxicological information

Information on toxicological effects

Toxicocinetics, metabolism and

distribution:

No data available.

Irritation and corrosivity: Inhalation of mist can lead to lung damage.

The product causes burns of eyes, skin and mucous

membranes. Risk of serious damage to eyes. Possible risk of

irreversible effects.

Effects of skin contact may include burn, itching.

Ingestion causes burns of the upper digestive and respiratory

tracts. Danger of perforation!

12. Ecological information

No data available. **Toxicity:**



Smoke cartridges D050015201

Revision No: 3,00

Revision date: 05.10.2011 Print date: 05.10.2011 Page 5 of 7

Persistence and degradability:No data available.Bioaccumulative potential:No data available.

Mobility in soil: No data available.

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.

13. Disposal considerations

Waste treatment methods

Recommendation Waste disposal 150

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

Land transport (ADR/RID)

UN number: UN3260

UN proper shipping name: Corrosive acidic inorganic liquid substance n.o.s. (sulfic acid

fumic)

Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Classification code: C2
Limited quantity: 1 kg
Transport category: 2
Hazard No: 80
Tunnel restriction code: E



Smoke cartridges D050015201

Revision No: 3,00

Revision date: 05.10.2011 Print date: 05.10.2011 Page 6 of 7

Inland waterways transport

UN number: UN3260

UN proper shipping name: Corrosive acidic inorganic liquid substance n.o.s. (sulfic acid

fumic)

Transport hazard class(es): 8
Packing group: II
Hazard label: 8

Classification code: C2
Limited quantity: 1 kg

Other applicable information (inland Not classified as dangerous regarding transport regulations.

waterways transport):

Marine transport

UN number: UN3260

UN proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Limited quantity: 1 kg
EmS: F-A, S-B

Air transport

UN/ID number: UN3260

UN proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Limited quantity Passenger:5 kgIATA-packing instructions - Passenger:859IATA-max. quantity - Passenger:15 kgIATA-packing instructions - Cargo:863IATA-max. quantity - Cargo:50 kg

Other applicable information (airExcepted Quantity: E2transport):Passenger-LQ: Y844

15. Regulatory information

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

GB - EN 500000195089



Smoke cartridges D050015201

Revision No: 3,00

Revision date: 05.10.2011 Print date: 05.10.2011 Page 7 of 7

National regulatory information

16. Other information

Changes: Sections which have been changed in comparison to the preceding edition: 1, 2, 3, 10, 11, 12, 15

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

14 Reacts violently with water.

Causes severe burns.

37 Irritating to respiratory system.

Full text of H-Statements referred to H314 Causes severe skin burns and eye damage.

under sections 2 and 3: H335 May cause respiratory irritation.

Further Information: The information is based on present levels of cause.

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

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