

**Detector Tube Phosgene**

D050018501

Revision no.: 3,00

Revision date: 06.09.2011

Print date: 06.09.2011

Page 1 of 6

**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 Phosgene  
**Relevant identified uses of the substance or mixture and uses advised against**  
**Use of the substance/mixture:** Detector tube

**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.	Product name
D5085761	Phosgene - A
D5085854	Phosgene - 0,1
D5092854	Phosgene - ETW

**2. Hazards identification****Classification of the substance or mixture:**

This mixture is not classified as dangerous according to Directive 1999/45/EC.  
 As an article the product does not need to be labelled in accordance with EC-directives or respective national laws.

**Label elements**

**S phrases:**

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.
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:**

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: No hazards deemed to be of major importance.

**Detector Tube Phosgene**

D050018501

Revision no.: 3,00

Revision date: 06.09.2011

Print date: 06.09.2011

Page 2 of 6

**3. Composition/information on ingredients****Mixtures****Chemical characterization:**

Sealed glass tube, filled with inert granules, treated with lithium chloride 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.		
231-212-3	Lithium chloride	1- 2 %
7447-41-8	Xn R22-36/38	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2A; H302 H315 H319	

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. In the case of skin irritation or allergic reactions see a physician.

**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 (15 min).

**After ingestion:**

Not applicable for intact detector tubes.  
 When indicator material is spilled: Rinse mouth. Call a physician immediately.

**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.

## Detector Tube Phosgene

D050018501

Revision no.: 3,00

Revision date: 06.09.2011

Print date: 06.09.2011

Page 3 of 6

### 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**

**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, facial protection

**Skin protection:**

Not required.

### 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Physical state:**

Granules in a glass tube.

**Colour:**

yellow

**Detector Tube Phosgene**

D050018501

Revision no.: 3,00

Revision date: 06.09.2011

Print date: 06.09.2011

Page 4 of 6

**Odour:** almost odorless**Test method****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**

<b>Reactivity:</b>	None if handled correctly
<b>Possibility of hazardous reactions:</b>	None if handled correctly
<b>Conditions to avoid:</b>	None if handled correctly
<b>Hazardous decomposition products:</b>	No decomposition if stored and applied as directed.
<b>Further information:</b>	After the opening of the tube: Sensitive to air (discolouration )

**11. Toxicological information****Information on toxicological effects****Toxicokinetics, 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
7447-41-8	Lithium chloride				
	Acute oral toxicity	LD50	526 mg/kg	rats	

**12. Ecological information**

<b>Toxicity:</b>	Not applicable for intact detector tubes. When indicator material is spilled: No data available.
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**Detector Tube Phosgene**

D050018501

Revision no.: 3,00

Revision date: 06.09.2011

Print date: 06.09.2011

Page 5 of 6

CAS No.	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
7447-41-8	Lithium chloride				
	Acute fish toxicity	LC50	158 mg/l	Rainbow trout (Oncorhynchus mykiss)	96
	Acute crustacea toxicity	EC50	249 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.

**Mobility in soil:**

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.

**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

**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**

## Detector Tube Phosgene

D050018501

Revision no.: 3,00

Revision date: 06.09.2011

Print date: 06.09.2011

Page 6 of 6

**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:**

22 Harmful if swallowed.

36/38 Irritating to eyes and skin.

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

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**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.

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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.)*