

Detector Tube NO2 - 2

D050017601

Revision No: 3,00

Revision date: 19.12.2011

Print date: 19.12.2011

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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 NO2 - 2
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.
D5085867

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

Additional advice on labelling: As an article the product does not need to be labelled in accordance with EC-directives or respective national laws.

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Other hazards:

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

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

Sealed glass tube, filled with inert granules, treated with
 glycerine, polyethylene glycol, 4,4'-bi-o-toluidine

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
204-358-0	4,4'-Bi-o-toluidin	< 0,01 %
119-93-7	Carc. Cat. 2, Xn, N R45-22-51-53	
612-041-00-7	Carc. 1B, Acute Tox. 4, Aquatic Chronic 2; H350 H302 H411	

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. If symptoms persist, call a physician.

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.

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.

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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: 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:
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. Recommended storage temperature: 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

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 and grey-brown

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Odour:	almost odorless	Test method
pH-Value (at 20 °C):	5	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	OECD 116
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
119-93-7	4,4'-Bi-o-toluidine			
	Acute oral toxicity	LD50	404 mg/kg	rats

Carcinogenic/mutagenic/toxic effects for reproduction:	Not applicable for intact detector tubes. 4,4'-Bi-o-toluidine: Carcinogenic, category: K2
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12. Ecological information

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

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.

Other applicable information:

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

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16. Other information

Changes:

Sections which have been changed in comparison to the preceding edition: 1, 2, 3, 10, 11, 14, 15

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

22 Harmful if swallowed.
45 May cause cancer.
51 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:

H302 Harmful if swallowed.
H350 May cause cancer.
H411 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.

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.)