



Test gas bottle

0.4 l with 1 % vol. methane

Safety Data Sheet in compliance with Regulation (EC) No 1907/2006 (as amended by Regulation (EU) No 878/2020)

| | | | |
|-----------------------|------------|-------------------|------------|
| Safety data sheet no: | 108342 | | |
| Version: | 5 | Replaces version: | 4 |
| Creation date: | 12.09.2025 | Valid from: | 22.09.2025 |

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

1.1 Product identifier

| | |
|---------------------------------|---|
| Substance name/trade name: | Test gas, synthetic air with 1 % vol. CH ₄ in 0.4 l gas bottle. |
| Product code: | ZT10-10013, 9511-0064 (refill) |
| Index no: | --- |
| EC no: | --- |
| CAS no: | --- |
| REACH registration no: | Listed in Annex IV/V REACH, exempted from registration. |
| Unique formula identifier (UFI) | Not applicable for gases under pressure in accordance with Annex VIII to Regulation (EC) No 1272/2008 (amended by (EU) 2017/542). |
| Other means of identification: | Test gas bottle 1 % vol. CH ₄ , Test gas 1 % vol. CH ₄ |

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

| | |
|----------------------------|------------------------------|
| Identified uses: | Industrial and professional. |
| Which are not recommended: | --- |

1.3 Details of the supplier of the safety data sheet

| | |
|-------------------------|--|
| Manufacturer/supplier: | Hermann Sewerin GmbH |
| Address: | Robert-Bosch-Straße 3, D – 33334 Gütersloh |
| Email: | info@sewerin.com |
| Telephone: | +49 (0)5241 934-0 |
| Emergency telephone no: | +49 (0)5241 934-330 (office hours) |

2. Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008, Annex VII: Gases under pressure – compressed gases – caution (H280).

2.2 Label elements in accordance with Regulation (EC) No 1272/2008

Pictogram/hazard symbol:



Signal word/indication of danger: Caution.

Hazard statements (H statements) H280: Contains gas under pressure; may explode if heated.

Precautionary statements (P statements) P410+P403: Protect from sunlight. Store in a well-ventilated place.

2.3 Other hazards

Other hazards Asphyxiating in high concentrations.

3. Composition/information on ingredients

3.1 Substance

3.2 Mixture

| | |
|----------------------------|---------------|
| Substance, component A: | Synthetic air |
| Concentration component A: | 99 % |
| Index no, component A: | --- |
| EC no, component A: | --- |
| CAS no, component A: | 132259-10-0 |
| Substance, component B: | Methane |
| Concentration component B: | 1 % |
| Index no, component B: | 601-001-00-4 |
| EC no, component B: | 200-812-7 |
| CAS no, component B: | 74-82-8 |

4. First aid measures

4.1 Description of first aid measures

| | |
|---------------|---|
| Inhalation: | No harmful effects are expected from this product. |
| Skin contact: | Skin contact is not considered a potential route of exposure. |
| Eye contact: | Eye contact is not considered a potential route of exposure. |
| Ingestion: | Ingestion is not considered a potential route of exposure. |

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed: See section 11.

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|--|-------|
| Indication of any immediate medical attention and special treatment needed | none. |
|--|-------|

5. Firefighting measures

5.1 Extinguishing media

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|---------------------------------|--|
| Suitable extinguishing media: | Any known extinguishing media may be used. |
| Unsuitable extinguishing media: | None known. |

5.2 Special hazards arising from the substance or mixture

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| Specific hazards: | Exposure to fire may cause containers to rupture/explode. |
| Hazardous combustion products: | Incomplete combustion may form carbon monoxide. |

5.3 Advice for firefighters

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|---|--|
| Specific methods: | If possible, stop gas leakage. Move away from container and cool with water from a protected position. |
| Special protective equipment for firefighters: | In confined spaces use self-contained breathing apparatus. |
| Indication of any immediate medical attention and special treatment needed: | Apply artificial respiration if breathing has stopped. |

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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|--|---|
| Personal precautions, protective equipment and emergency procedures: | Clear the area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. |
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6.2 Environmental precautions

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|----------------------------|--------------------------|
| Environmental precautions: | Try to stop gas release. |
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6.3 Methods and material for containment and cleaning up

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| Methods and material for containment and cleaning up: | Ventilate area. |
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6.4 Reference to other sections

| | |
|------------------------------|-----|
| Reference to other sections: | --- |
|------------------------------|-----|

7. Handling and storage

7.1 Precautions for safe handling

| | |
|--|---|
| Measures to prevent fire and explosion: | <p>Open valves slowly to prevent pressure spikes.</p> <p>Do not allow water to enter the container.</p> <p>Do not allow back feed into the container.</p> <p>Use only equipment that is suitable for this product, its supply pressure and temperature.</p> <p>Secure pressure vessels (pressure cylinders) to prevent them from overturning.</p> |
| Measures to prevent dust and aerosol generation: | --- |
| Measures to protect the environment: | --- |

General hygiene precautions: ---

7.2 Conditions for safe storage, including any incompatibilities

Information on storage conditions: Store containers below 50 °C in a well-ventilated location.
Secure pressure vessels (pressure cylinders) to prevent them from overturning.

Requirements for storage areas and containers: ---

7.3 Specific end use(s)

Industry or sector-specific guidance: ---

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits for Germany

Substance name, CAS no: ---

Specification: ---

Value: ---

Acceptable peak concentration: ---

Teratogenic: ---

Monitoring procedures: ---

DNEL and PNEC values

Substance name, CAS no: ---

Specification: ---

Value: ---

Control banding (e.g. ILO, EMKG)

Relevant parameters/classification: ---

Relevant protection guidelines: ---

Value: ---

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Provide general and local ventilation/extraction to keep concentrations below explosion limits and/or to comply with occupational exposure limits (where applicable).

8.2.2 Individual protection measures, such as personal protective equipment:

Ensure adequate ventilation.
No smoking when handling the product.

8.2.3 Environmental exposure controls:

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance, state of aggregation: Gas.

Colour: Colourless gas.

| | |
|---------------------------------|--------------------------------|
| Odour: | No perceptible odour. |
| Melting point: | --- |
| Boiling point: | --- |
| Vapour pressure: | Not applicable. |
| Relative density, gas (air =1): | Density similar to air |
| Solubility in water: | Methane (component B): 26 mg/l |
| Flammability range: | --- |
| Ignition temperature: | --- |

9.2 Other information

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|-----------------------|-----|
| Molecular weight: | --- |
| Critical temperature: | --- |

10. Stability and reactivity

10.1 Reactivity

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|-------------|--|
| Reactivity: | Unreactive under normal temperature and pressure conditions. |
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10.2 Chemical stability

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|---------------------|--|
| Chemical stability: | Stable under normal temperature and pressure conditions. |
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10.3 Possibility of hazardous reactions

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|-------------------------------------|-------|
| Possibility of hazardous reactions: | None. |
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10.4 Conditions to avoid

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|----------------------|-------|
| Conditions to avoid: | None. |
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10.5 Incompatible materials

| | |
|-------------------------|-------|
| Incompatible materials: | None. |
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10.6 Hazardous decomposition products

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|-----------------------------------|-------|
| Hazardous decomposition products: | None. |
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11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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|---------------------------------------|--|
| Information on toxicological effects: | There are no known toxic effects associated with this product. |
|---------------------------------------|--|

11.2 Information on other hazards

| | |
|----------------|-------|
| Other hazards: | None. |
|----------------|-------|

12. Ecological information

12.1 Toxicity

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|-----------|--|
| Toxicity: | This product does not cause any environmental pollution. |
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12.2 Persistence and degradability

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|--------------------------------|--------------------|
| Persistence and degradability: | No data available. |
|--------------------------------|--------------------|

12.3 Bioaccumulative potential

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|----------------------------|--------------------|
| Bioaccumulative potential: | No data available. |
|----------------------------|--------------------|

12.4 Mobility in soil

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|-------------------|--------------------|
| Mobility in soil: | No data available. |
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12.5 Results of PBT and vPvB assessment

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|-------------------------------------|--------------------|
| Results of PBT and vPvB assessment: | No data available. |
|-------------------------------------|--------------------|

12.6 Endocrine disrupting properties

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|----------------------------------|---|
| Endocrine disrupting properties: | The substance or mixture does not have any endocrine-disrupting properties. |
|----------------------------------|---|

12.7 Other adverse effects

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|------------------------|--------------------|
| Other adverse effects: | No data available. |
|------------------------|--------------------|

13. Disposal considerations**13.1 Waste treatment methods**

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|---|--|
| Waste treatment methods: | Prevent runoff into sewerage systems, cellars, working pits and similar places where accumulation of the gas could be dangerous. Contact supplier if guidance is required. |
| Treatment of contaminated packaging: | Contact supplier for special recommendations. Recycling: 15 01 04 Metallic packaging. |
| Waste code in accordance with the German Waste Ordinance (AVV): | 16 05 05 – Gases in pressure containers other than those mentioned in 16 05 04. |
| Special precautions: | --- |
| Relevant EU or other provisions: | --- |

13.2 Additional Information**14. Transport information****14.1 UN number or ID number**

| | |
|------------|---------|
| UN number: | UN 1956 |
|------------|---------|

14.2 UN proper shipping name

| | |
|-----------------------------------|---|
| Surface transport (ADR/RID): | COMPRESSED GAS, N.O.S. (synthetic air, methane) |
| Transport by sea (IMDG): | COMPRESSED GAS, N.O.S. (synthetic air, methane) |
| Air transport (ICAO-TI/IATA-DGR): | Compressed gas, n.o.s. (synthetic air, methane) |

14.3 Transport hazard class(es)

| | |
|--|---|
| Transport hazard class surface transport (ADR/RID): | 2 |
| Transport hazard class by sea (IMDG): | 2 |
| Transport hazard class air transport (ICAO-TI/IATA-DGR): | 2 |

Surface transport

| | |
|---|-----|
| Classification under ADR/RID regulations: | 2.2 |
|---|-----|



| | |
|----------------------|-----|
| Classification code: | 1 A |
|----------------------|-----|

Tunnel restriction: E: Passage forbidden through tunnels of category E

Transport by sea

Classification: 2.2

EMS: F-C, S-V

Air transport

Classification: 2.2

14.4 Packing group

Surface transport (ADR/RID): Not applicable.

Transport by sea (IMDG): Not applicable.

Air transport (ICAO-TI/IATA-DGR): Not applicable.

14.5 Environmental hazards

Surface transport (ADR/RID): Not a marine pollutant.

Transport by sea (IMDG): Not a marine pollutant.

Air transport (ICAO-TI/IATA-DGR): Not a marine pollutant.

14.6 Special precautions for user

Other transport information: Where possible avoid transport in vehicles where the load space is not separated from the driver's compartment.
Secure gas cylinders. Cylinder valves must be closed and not leaking.
Ensure that the valve protection device (where provided) is correctly fitted.
Ensure that the valve lock nut is correctly fitted.
Ensure adequate ventilation.
Ensure compliance with applicable regulations.

Air transport (ICAO-TI/IATA-DGR): Transport allowed in passenger and cargo aircraft.

14.7 Maritime transport in bulk according to IMO instruments

Maritime transport in bulk: Not applicable.

15. Regulatory information

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

European requirements: Regulation EG No. 1907/2006 (REACH).
Regulation EG No. 1272/2008 (CLP).

Ensure compliance with all national and local regulations.

15.2 Chemical safety assessment

Chemical safety assessment: A chemical safety assessment does not need to be prepared for this product.

16. Other information

Changes to the previous version: Revision, numbering subsections.

Training for employees: www.industriegaseverband.de, <http://www.eiga.org/>

Conversion of units: 0.001 % vol. = 10 ppm

Further information: The risk of asphyxiation is often overlooked and must be stressed during operator training. Before using the product in any new process or experiment, a thorough material compatibility and safety study should be carried out. This information does not imply a contractual confirmation of product characteristics. It is based on current knowledge.

Subject to technical changes.