

## **Safety Data Sheet**

## Test gas bottle 0.4 I 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	108342	
Version:	4	Replaces version:	3
Creation date:	14.12.2023	Valid from:	20.12.2023

1. Identification of the substance/mixture and of the company/undertaking		
Product identifier		
Substance name/trade name:	Test gas, synthetic air with 1 % vol. CH₄ in 0.4 I 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 <sub>4</sub> , Test gas 1 % vol. CH <sub>4</sub>	
Identified uses:	Industrial and professional.	
Which are not recommended:		
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	
Classification of the sub	ostance or mixture
Classification in accordance with Regulation (EC) No 1272/2008, Annex VII:	Gases under pressure – compressed gases – caution (H280).
Label elements in accor	rdance 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.

Other hazards

Other hazards

3. Composition/information on ingredients	
Substance/mixture:	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

Asphyxiating in high concentrations.

4. First aid measures  Description of first aid measures	
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.
Most important symptor	ns and effects, both acute and delayed
Most important symptoms and effects, both acute and delayed:	Asphyxiation, loss of mobility and consciousness.
Indication of any immediate medical attention and special treatment needed	
Indication of any immediate medical attention and special treatment needed	Apply artificial respiration if breathing has stopped.

5. Firefighting measures		
Extinguishing media		
Suitable extinguishing media:	Any known extinguishing media may be used.	
Unsuitable extinguishing media:	None known.	
Special hazards arising	from the substance or mixture	
Specific hazards:	Exposure to fire may cause containers to rupture/explode.	
Hazardous combustion products:	Incomplete combustion may form carbon monoxide.	
Advice for firefighters		
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		
Personal precautions, p	Personal precautions, protective equipment and emergency procedures	
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.	
Environmental precaution	ons	
Environmental precautions:	Try to stop gas release.	
Methods and material fo	or containment and cleaning up	
Methods and material for containment and cleaning up:	Ventilate area.	
Reference to other secti	ions	

Reference to other sections:

7. Handling and storage			
Precautions for safe handling			
Measures to prevent fire and explosion:	Open valves slowly to prevent pressure spikes. Do not allow water to enter the container. Do not allow back feed into the container. Use only equipment that is suitable for this product, its supply pressure and temperature. Secure pressure vessels (pressure cylinders) to prevent them from overturning.		
Measures to prevent dust and aerosol generation:			
Measures to protect the environment:			
General hygiene precautions:			
Conditions for safe stora	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:			
Specific end use(s)			
Industry or sector-specific guidance:			

8. Exposure controls/p	ersonal protection
Control parameters	
Occupational exposure limit	ts 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, E	MKG)
Relevant parameters/classification:	
Relevant protection guidelines:	
Value:	
Exposure controls	
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).
Individual protection measures, such as personal protective equipment:	Ensure adequate ventilation. No smoking when handling the product.
Environmental exposure controls:	

9. Physical and chemical properties	
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:	
Other information	
Molecular weight:	
Critical temperature:	

10. Stability and reactivity	
Reactivity	
Reactivity:	Unreactive under normal temperature and pressure conditions.
Chemical stability	
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardou	s reactions
Possibility of hazardous reactions:	None.
Conditions to avoid	
Conditions to avoid:	None.
Incompatible materials	
Incompatible materials:	None.
Hazardous decomposition products	
Hazardous decomposition products:	None.

11. Toxicological information Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Information on other hazards	
Other hazards:	None.

12. Ecological information	
Toxicity	
Toxicity:	This product does not cause any environmental pollution.

Persistence and degradability		
Persistence and degradability:	No data available.	
Bioaccumulative potential		
Bioaccumulative potential:	No data available.	
Mobility in soil		
Mobility in soil:	No data available.	
Results of PBT and vPvB assessment		
Results of PBT and vPvB assessment:	No data available.	
Endocrine disrupting properties		
Endocrine disrupting properties:	The substance or mixture does not have any endocrine-disrupting properties.	
Other adverse effects		
Other adverse effects:	No data available.	

13. Disposal considerations  Waste treatment methods	
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:	

14. Transport information		
UN number or ID number		
UN number:	UN 1956	
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)	

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:	
Classification and a	2.2
Classification code: Tunnel restriction:	1 A  E: Passage forbidden through tunnels of category E
Transport by sea	L. Passage forbidden tillough turners of category L
Classification:	2.2
EMS:	F-C, S-V
Air transport	F-O, 3-V
Classification:	2.2
	2.2
Packing group	
Surface transport (ADR/RID):	Not applicable.
Transport by sea (IMDG):	Not applicable.
Air transport (ICAO-TI/IATA- DGR):	Not applicable.
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.
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.

Maritime transport in bulk according to IMO instruments	
Maritime transport in bulk:	Not applicable.

15. Regulatory information		
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.	
Chemical safety asses	sment	
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 according to Regulation (EU) No. 878/2020.
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.

108342 – 20.12.2023 – Subject to technical changes.